

# SOAP

*and Chemical Specialties*

## *In this issue...*

Buyers' Guide Section .....	13
A. S. Specifications .....	231
The Penetration Method .....	243
CSMA Aerosol Insecticides Storage Test .....	245
CSMA Aerosol Test Method for Flying Insecticides .....	247
CSMA Cockroach Spray Test Method .....	249
CSMA Cockroach Aerosol Test Method .....	251
Map of Hardness and pH Values of Water in U. S. ....	256
Trade Association Officials .....	257
"Soap and Chemical Specialties" Index of Articles .....	263
Index to Advertisers .....	268

# 1956 BLUE BOOK

and Catalog Edition

.....

**Annual Buyers' Guide**  
*for Manufacturers and Jobbers  
of Soaps, Detergents, Chemical Specialties,  
Janitor Supplies and Equipment.*

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Regular Distilled	157 Min.	19-23	6 Max.	197-204
SM 500	152 Min.	19-23	10 Max.	197-204
<b>SOYA FATTY ACIDS</b>				
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RO-10	125 Min.	23-29	4 Max.	195-205
RO-11-S	125 Min.	23-29	4 Max.	195-205
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RO-8	115 Min.	30 Max.	6-8	195-205
<b>MISCELLANEOUS FATTY ACIDS</b>				
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**BLUE BOOK**  
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●

AN ANNUAL BUYERS GUIDE,  
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VOLUME FOR MANUFACTURERS,  
CONVERTERS, REPACKERS AND  
JOBBER OF SOAPS, DETERGENTS,  
INSECTICIDES, DISINFECTANTS,  
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SPECIALTIES, JANITOR SUPPLIES  
AND EQUIPMENT.

*Twenty-Ninth Edition*

\$2.00 a copy

(Included without charge in annual subscription of "Soap & Chemical Specialties")

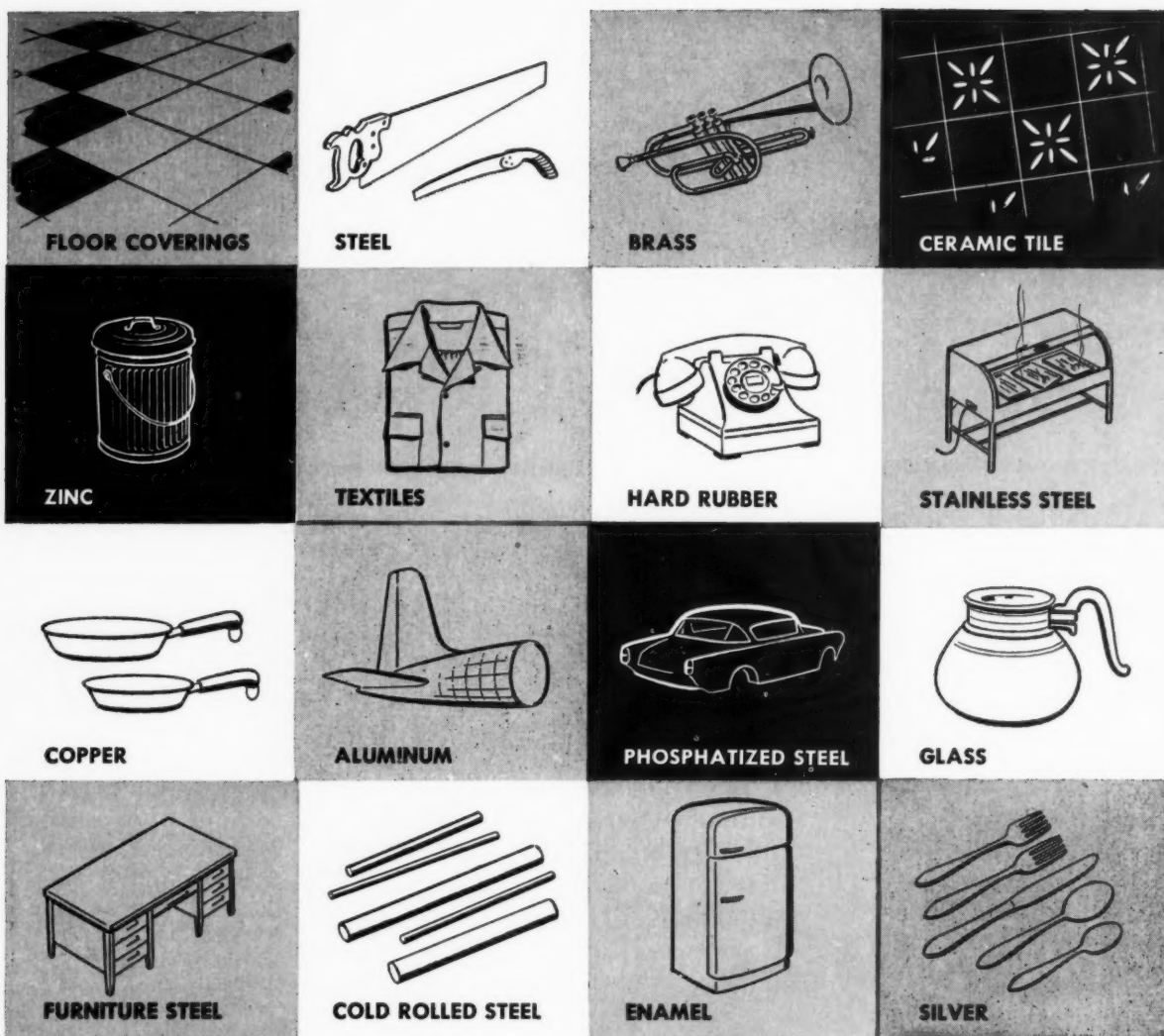
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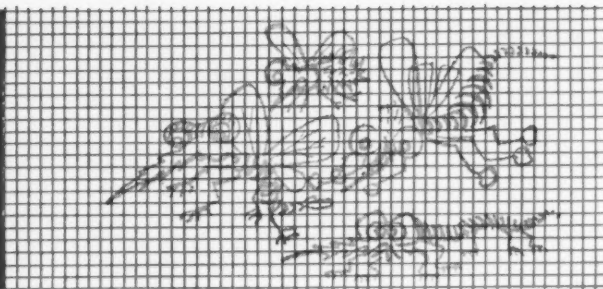
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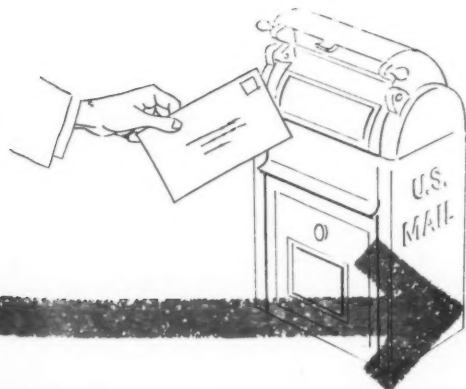
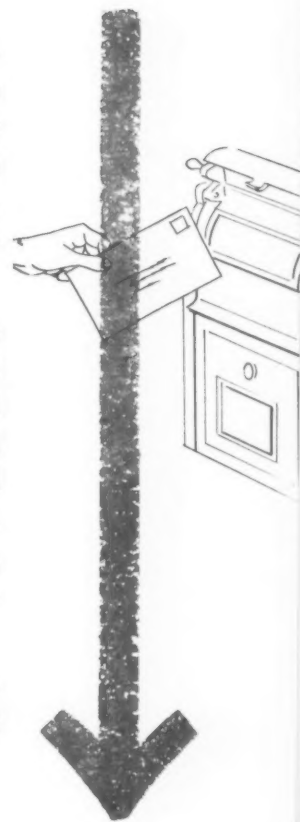
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# Buyers' Guide Section

**F**OLLOWING in alphabetical order by product, are leading sources of supply for raw materials, equipment, containers, bulk and private brand finished products, accessories and services, for manufacturers, converters, repackers and distributors of soaps, detergents, cleaners, insecticides, disinfectants, floor waxes, polishes, aerosols, and other chemical specialties, including janitor supplies.

The source of names listed are questionnaires sent each year to manufacturers and suppliers for listing products for which they are headquarters. As in previous editions, new listings have been added in this issue and every attempt made to keep addresses complete and accurate. If your firm is not listed and sells raw materials, equipment, bulk products, accessories, to the soap and specialty chemical industries, let us know so that we may send you a questionnaire for listing in next year's edition.

The **BLUE BOOK** is not a general chemical directory. It is edited specifically to be of greatest aid to manufacturers, converters, repackers, and jobbers of soaps, detergents, chemical specialties, janitor supplies, equipment, etc. It is designed solely for firms selling **TO THE TRADE**.

The editors are indebted to the many readers and suppliers who have made suggestions for additional listings to improve further the usefulness of the directory.

If you are looking for a manufacturer or supplier for a product or service not listed, drop a line to the **SOAP BLUE BOOK**, and the editors will try to locate a supplier. When writing advertisers or other suppliers please name the **SOAP BLUE BOOK** as the source of your information.

•

## SOAP BLUE BOOK

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Tamm Industries, Inc., 228 N. La Salle St., Chicago  
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Whittaker Clark & Daniels, 260 W. B'way, N. Y.  
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Blockson Chem. Co., Joliet, Ill.  
Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.  
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Dover Chem. Co., Dover, O.  
Dow Chemical Co., Midland, Mich  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eastman Chem. Prods., Kingsport, Tenn.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chem. Co., 1945 E. 97 St., Cleveland  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Kay-Fries Chems., Inc., 180 Madison Ave., N. Y. 16  
Koppers Co., Koppers Bldg., Pittsburgh, Pa.  
Mallinckrodt Chemical Wks., St. Louis 7  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570 Ardine St., South Gate, Calif.  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3, Md.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Publicker Industries, 1429 Walnut St., Phila. 2  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Shea Chem. Corp., Jeffersonville, Ind.  
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Tennessee Corp., 619 Grant Blvd., Atlanta, Ga.  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6

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**COLLOID MILLS**.  
**CONDENSERS AND HEAT EXCHANGERS**  
**CONVEYORS**—Belt, Roller, Screw.  
**CRUSHERS**—Jaw, Roll.  
**CUTTERS**—Rotary.  
**DRYERS**—All Kinds.  
**ELEVATORS**  
**EVAPORATORS**.

**EXTRUDERS AND PLODDERS**  
**FILTERS**—Liquid, Paste, Powder.  
**FILTERS**—Presses, Internal Pressure, Vacuum.  
**HOMOGENIZERS**.  
**KETTLES**, stain. steel steam jacketed.  
**LABELERS**—Bottle, Can.  
**MILLS**: Ball and Pebble, Hammer, Roller.  
**MIXERS**—Powder, Paste, Liquid.  
**PUMPS**—All Kinds.  
**SCREENS AND SIFTERS**.  
**STERILIZERS, IMPREGNATORS, RETORTS**.  
**STILLS**—Water, Solvent Recovery.  
**TANKS**—Stain. Steel—plain, jacketed.

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**FILLERS**—Paste, piston type.  
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**TANKS**—Stainless steel—plain and jacketed—with and without agitators. Any size built to specifications.

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(Phone: Seeley 8-1431)

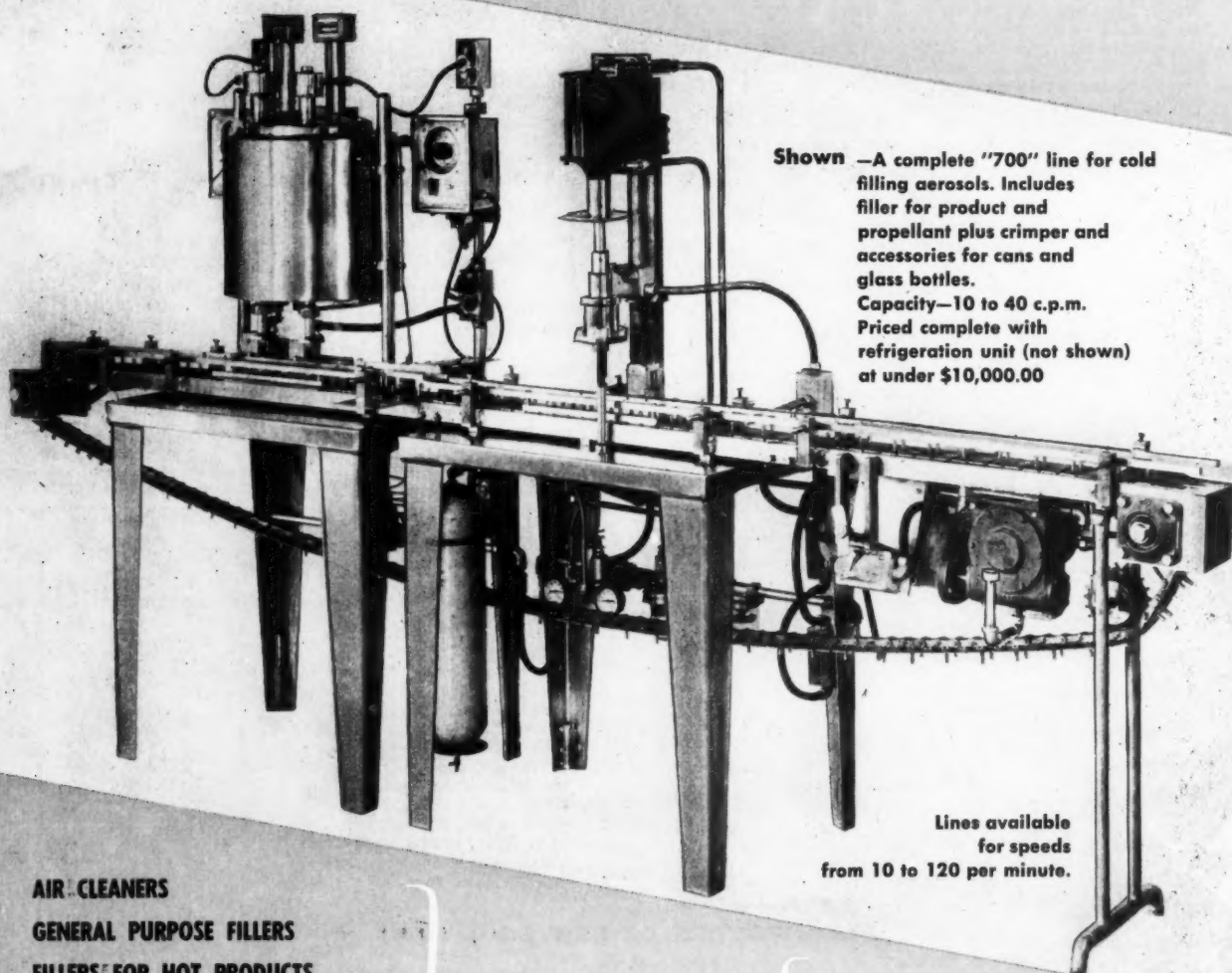
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Lines available  
for speeds  
from 10 to 120 per minute.

AIR CLEANERS  
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FILLERS FOR HOT PRODUCTS  
FILLERS FOR REFRIGERATED PRODUCTS  
FILLERS FOR AEROSOLS  
CRIMPERS  
CROWNERS  
SCREW CAPPERS  
LID TIGHTENERS

Each on its  
own table —  
fully interchangeable  
with all other units

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just like a train of cars —  
to make simple, flexible,  
fully automatic filling  
lines for cans, glass  
bottles or paper cartons.

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#### ACIDS, ACETIC, BENZOIC, ETC. (Contd.)

Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

#### ACIDS (Citric, Gluconic, Tartaric, etc.)

J. T. Baker Chem. Co., Phillipsburg, N. J.  
Blockson Chem. Co., Joliet, Ill.  
Glyco Prods. Co., 350 Fifth Ave., N. Y. C  
Heyden Chem. Corp., 342 Madison Ave., N. Y. 17  
Mallinckrodt Chem. Co., St. Louis  
Merck & Co., Rahway, N. J.  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17

#### ACTIVATED CARBONS (see Bleaching Earths, Decolorizing Carbons)

#### ADHESIVES (Glues, Pastes, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Arabol Mfg. Co., 110 E. 42nd St., N. Y.  
Armour & Co., 1355 W 31st St., Chicago  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y. 6  
Bingham Bros. Co., 406 Pearl St., N. Y. C.  
Diamond Alkali Co., Cleveland 14, Ohio  
Dow Corning Corp., P. O. Box 592, Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
B. F. Goodrich Chemical Co., Cleveland 15  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
National Starch Products, Inc., 270 Madison Ave., N. Y.  
Pennsylvania Industrial Chem. Corp., Clairton, Pa.

Philadelphia Quartz, Co., Public Ledger Bldg., Phila. 6  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Chicago  
Union Bay State Chem. Co., 491 Main St., Cambridge,  
Mass.  
T. F. Washburn Co., 2244 Elston Ave., Chicago 14

#### AEROSOL CONTAINERS

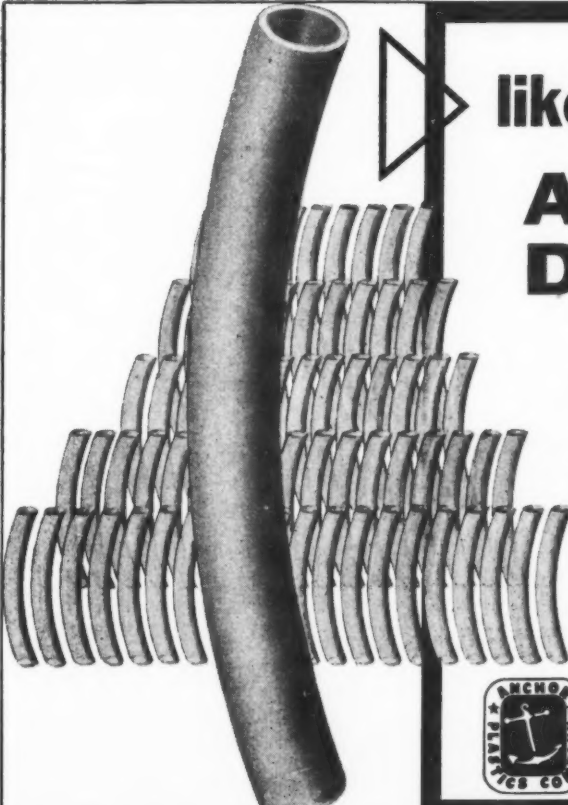
Aerated Container Corp., 39 S. LaSalle St., Chicago 3  
American Can Co., 100 Park Ave., N. Y. C.  
Bridgeport Brass Co., Bridgeport, Conn.  
Owens-Illinois Glass Co., Toledo 1, O.  
Continental Can Co., 100 E. 42nd St., N. Y. 17  
Crown Can Co., 9300 Ashton Rd., Philadelphia 34  
Ronor Corp., 1360 W. 9 St., Cleveland 13  
Tube Manifold Corp., 415 Bryant, N. Towanda, N. Y.  
Victor Aerosol Container Corp., 193 Newel St., Bklyn.  
Wheaton Plastics Co., Mays Landing, N. J.  
White Metal Mfg. Co., 1012 Grand, Hoboken, N. J.

#### AEROSOL DIP TUBES

Anchor Plastics Co., 36-36 36th St., Long Island City 6  
H&R Industries, Nazareth, Pa.  
Hydrawlik Co., 131 E. 1st Ave., Roselle, N. J.

#### AEROSOL FILLING EQUIPMENT

Aerated Container Corp., 39 La Salle St., Chicago 3  
Alpha Engineering & Machine Wks., Inc., 800 W. Central  
Rd., Mt. Prospect, Ill.  
Bridgeport Brass Co., Bridgeport 2, Conn.  
Builders Sheet Metal Works, 108 Wooster St., N. Y. 12  
Consolidated Packaging Mch Co., 1400 West Ave.,  
Buffalo, N. Y.  
Doran Bros. Inc., 30 Shatter Rock Rd., Danbury, Conn.  
Elgin Mfg. Co., Elgin, Ill.  
Hope Machine Co., 9400 State Road, Phila., Pa.  
Mojonnier Associates, Inc., 9151 Fullerton Ave., Franklin  
Park, Ill.




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for


AEROSOLS




ATOMIZERS



SQUEEZE BOTTLES





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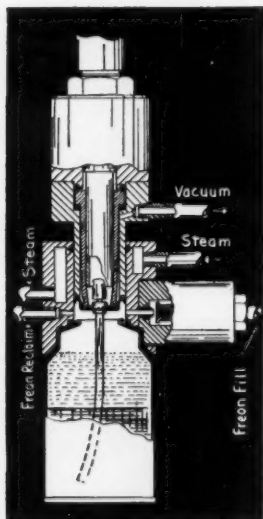
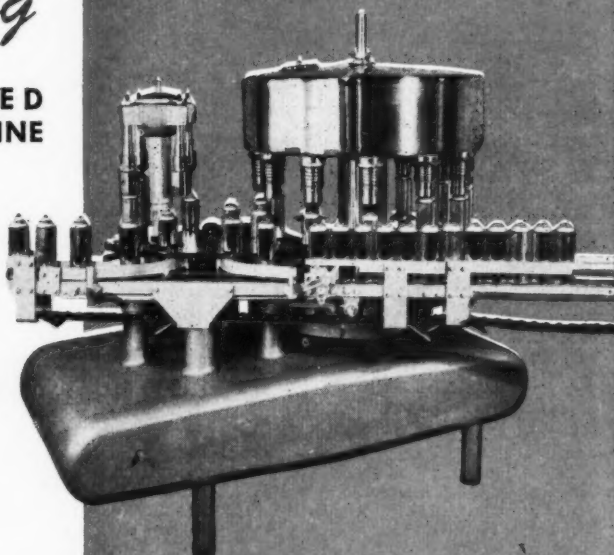
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*Presenting*

### ALPHA'S NEW HIGH SPEED ROTARY AEROSOL FILLING MACHINE

1. Vacuum Crimpers remove air from containers before crimping on Valve closure.
2. Propellent Fill (Freon, Genetron) adjustable from 12 grams to 12 oz.
3. Operating speeds up to 100 cans per minute.
4. Machine available with change parts to handle any aerosol container with a 1-inch opening.
5. Model available soon for filling glass containers (coated or uncoated).



#### FILLING SIMPLIFIED WITH ALPHA'S NEW ALPRO FILLING MACHINE

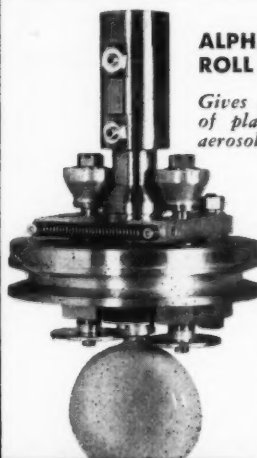
Fast filling of 12 and 6 ounce aerosol can possible with any aerosol valve. New Alpha method combines propellant loading with valve sealing. Crimping head seals on container and lifts valve which is previously placed on container allowing propellant to be filled into container through 1" cap opening. Crimping head lowers crimping valve onto container before seal is broken.

STEAM JACKET prevents freeze up of moving parts.

RECLAIM PORT cuts propellant losses to bare minimum.

#### ALPHA'S NEW . . . ROLL CAPPER MODEL 101

*Gives trouble free positive sealing of plain and plastic coated glass aerosol containers.*



*New improved floating roller action allows roller to conform to variation on plastic coating thickness and irregularity of bottles. Positive control of final crimped diameter prevents cutting of plastic coating and scoring of glass surface.*

Alpha roll capper, Model 101, may be installed on your present aerosol filling machine, or may be purchased as a new self-contained unit.

# Alpha

can furnish complete aerosol filling lines including: • Can unscramblers • Product & Propellant Machines (hand or automatic models) • Water Baths • Labeling Machines • Can Coders • Conveyors • Propellant Handling Equipment. In capacities from 10 to 100 cans per minute.

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## AEROSOL FILLING EQUIPMENT (Contd.)

M. R. M. Co., 191 Berry St. Bklyn., 11  
Nanuet Valve Co., Nanuet, N. Y.  
Oil Equipment Laboratories, 600 Pearl St., Elizabeth  
N. J.  
Weigh Right Automatic Scale Co., Joliet, Ill.

## AEROSOL FILLING (for the Trade)

Aero-Fil, Inc., 10015 W. Pacific Ave., Franklin Park, Ill.  
St., N. Boston  
Aeropak, Inc., 3005 W. 47 St., Chicago  
Aerosol Corp. of the South, 203 Scott St., Memphis,  
Tenn.  
Aerosol Filling Div., Puritan Dist. Co., 160 Washington  
St. N, Boston  
Aerosol Service AG., Weillstrasse 12, Basel, Switzerland  
Aerosol Techniques, Inc., 111 Silliman Ave., Bridgeport,  
Conn.  
American Potash & Chem. Corp., 3100 E. 26th St., Los  
Angeles, Calif.  
A.M.R. Chem. Co., 985 E. 35 St., Bklyn.  
Armstrong Laboratories, 41 LaGrange St., Boston  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Bridgeport Brass Co., Bridgeport 2, Conn.  
Capitol Packaging Co., 1441 Circle Ave., Forest Park, Ill.  
Chase Products Co., 1816 W. St. Charles Rd., Maywood,  
Ill.  
Chemi-Form Corp., 3707 W. Harrison St., Chgo.  
Connecticut Chemical Research Corp., Bridgeport 5,  
Conn.  
Continental Filling Corp., 123 N. Hazel St., Danville, Ill.  
Eveready Pressurized Products Co., 1022 Belt Line St.,  
Cleveland 9, Ohio  
Fluid Chemical Co., 878 Mt. Prospect, Newark 4, N. J.  
Hysan Products Co., 932 W. 38 Pl., Chicago 9, Illinois  
Jasco Chem. Co., 1128 St. Johns Pl., Bklyn. 13.  
Lawson Chem. Prods. Co., 5634 Selmaraine Dr., Culver  
City, Calif.  
Lerk Co., P. O. Box 324, Franklin, Ky.  
McGuire & Co., 833 47th Ave., Oakland, Calif.  
Old Empire, Inc., Mt. Prospect & Verona Aves., Newark,  
N. J.  
Par Industries, Inc., 2193 E. 14th St., Los Angeles 21,  
Calif.  
Peterson Filling & Packaging Co., Hegeler Lane, Dan-  
ville, Ill.  
Powr-Pak, Inc., 647 North Ave., Bridgeport, Conn.  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kansas  
Products Manufacturing Co., 135 Stevens Ave., Little  
Falls, N. J.  
Regal Chem. Corp., 115 Dobbin St., B'klyn 22, N. Y.  
Ronor Corp., 1360 W. 9 St., Cleveland  
Gene Rose Co., 1637 S. Kilbourn Ave., Chicago 23  
Schaeffer Paint Co., 334 W. Marion St., Lancaster, Pa.  
Sprayon Products, Inc., 2075 East 65th St., Cleveland 3,  
Ohio  
Stalford Pressure-Pak Corp., 319 W. Pratt St., Baltimore  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20, Ill.  
Western Filling Corp., 4151 Bandini Blvd., Los  
Angeles 23

## AEROSOL FORMULATIONS

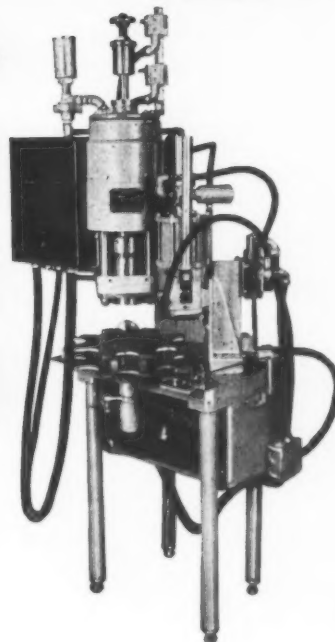
A.M.R. Chem. Co., 985 E. 35 St., Bklyn.  
Chem. Service Co. of Baltimore, Howard & West Sts.,  
Balto.  
Dominion Products, Inc., 10-40 44th Drive, Long Island  
City 1, N. Y.  
Duveen Soap Corp., 36-14 35 St., Long Island City, N. Y.  
Fairfield Chem. Div., 1701 Patapsco Ave., Balto. 3, Md.  
B. F. Goodrich Chem. Co., 2060 E. 9 St., Cleveland  
Hercules Powder Co., 961 Market St., Wilmington  
Hewitt Soap Co., Dayton, O.  
McLaughlin Gormley King Co., 1715 5th St., SE.,  
Minneapolis  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell & Co., Div. Olin Mathieson Chem. Corp.,  
Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Propel Chemicals, Inc., 415 Lexington Ave., N. Y.  
Van Dyk & Co., Belleville 9, N. J.

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AUTOMATIC  
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FILLER



- ★ Most dependable unit available today for pressure filling
- ★ Handles all three operations with speed and adaptability
- ★ Adjustable to any amount of propellant, at speeds of 20 to 50 containers per minute, per head
- ★ Accurate, trouble-free operation
- ★ May be used with existing equipment

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## No. 500 Series *Pres-O* Valve For FOAM or SPRAY

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IN CORROSION BOX

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ODOR EVALUATION

PRESSURE FILLING

COLD FILLING

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the market. Shave creams, hand lo-  
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personal deodorants, incense,  
... whatever the item ex-  
actly, pre-production checks are  
essential to long-term success. In the  
Dodge & Olcott Laboratory all of  
these tests for the manufactur-  
ing of a new aerosol product  
are made. Each test is conducted  
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nicians and highly skilled perfu-  
miers check odor stability every  
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## AEROSOL PERFUMES

American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
 Alfa Essential Oil Co., 6 Varick St., N. Y.  
 American-British Chem. Supplies, 180 Madison Ave.,  
 N. Y. 16  
 Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
 Berje Chem. Prod. Co., 359 W. Broadway, N. Y.  
 Charabot & Co., 114 E. 25th St., N. Y.  
 Ph. Chaleyser, Inc., 160 E. 5th St., N. Y.  
 Antoine Chiris Co., 212 E. 23rd St., N. Y.  
 Gerard J. Danco, Inc., 5 E. 19th St., N. Y. C.  
 De Laire, Inc., 114 E. 32nd St., N. Y.  
 Descollonges, Inc., 160 5th Ave., N. Y. 10  
 Dodge & Olcott, Inc., 180 Varick St., N. Y.  
 Dow Chemical Co., Midland, Mich.  
 P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
 Eastman Chemical Prods. Co., Kingsport, Tenn.  
 Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.  
 Fine Chems. Div., Shulton, Inc., 630 5th Ave., N. Y.  
 Firmenich, Inc., 250 W. 18th St., N. Y.  
 Fleuroma, Inc., 38 W. 21st St., N. Y. 10  
 Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
 Fries & Fries, Inc., 110 E. 70th St., Cincinnati  
 Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
 Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
 Gunning & Gunning, 601 W. 26th St., N. Y.  
 Heine & Co., 601 W. 26th St., N. Y. 1  
 D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt.  
 Vernon, N. Y.  
 Lautier Fils, 321 Fifth Ave., N. Y.  
 Samuel Klein, 4 Hanover Sq., N. Y. 14  
 Pierre Lemoine, 67 Cortlandt St., N. Y.  
 Geo. Lueders & Co., 427 Washington St., N. Y.  
 Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.  
 N. Y. Aromatics Corp., Highbridge, N. J.  
 Newman Buslee Wolfe, 5800 Northwest Highway,  
 Chicago  
 Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
 Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
 Orbis Products Corp., 601 W. 26th St., N. Y.  
 S. B. Perick & Co., 50 Church St., N. Y.  
 Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.  
 Polak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.  
 Polak & Schwarz, Inc., 667 Washington St., N. Y.  
 Polarome Co., 73 Sullivan St., N. Y. C.  
 Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
 Rhodia, Inc., 230 Park Ave., N. Y.  
 F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39  
 Roubechez, Inc., 8 E. 12th St., N. Y. 3  
 Roure-Dupont, Inc., 366 Madison Ave., N. Y.  
 H. C. Ryland, Inc., 161 Water St., N. Y.  
 Schimmel & Co., 601 W. 26th St., N. Y.  
 Edwin Seebach Co., 912 Broadway, N. Y.  
 Seeley & Co., Nyack, N. Y.  
 Synflour Scientific Labs., Monticello, N. Y.  
 Syntomatic Corp., 114 E. 32nd St., N. Y.  
 Tombarel Products Corp., 725 Broadway, N. Y. 3  
 Ungerer & Co., 161 Avenue of Americas, N. Y.  
 van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.  
 Van Dyk & Co., Belleville, N. J.  
 Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
 Verona Chem. Co., 26 Verona Ave., Newark, N. J.

## AEROSOL PRODUCTS (Filled Containers for the Trade. Insecticides, Deodorants, Shave Creams, etc.)

Airkem, Inc., 241 E. 44th St., N. Y. 17  
 Aeropak, Inc., 3005 W. 47 St., Chicago  
 Aerosol Corp. of the South, 203 Scott St., Memphis,  
 Tenn.  
 Aerosol Filling Div., Puritan Dist. Co., 160 Washington  
 St., N., Boston  
 American Potash & Chem. Corp., 3100 E. 26th St., Los  
 Angeles, Calif.  
 A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18  
 G. Barr & Co., 3601 S. Racine Ave., Chicago.  
 Bridgeport Brass Co., Bridgeport 2, Conn.  
 California Spray-Chemical Corp., Richmond, Calif.  
 Chase Products Co., 1816 W. St. Charles Rd., Maywood,  
 Ill.  
 Chemical Service of Baltimore, Howard & West Sts.  
 Baltimore, Md.  
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
 Columbia Chemical Co., 154 E. Erie St., Chicago 11, Ill.

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## Fast Facts About

# genetron®

## ...the Right Propellant

"Genetron" aerosol propellants have long been the first choice of many leading aerosol fillers and marketers and the number is increasing daily. Now, with General Chemical's expanded line, an even greater variety of products can profit from the growing demand for the conveniences of "push-button living" which aerosols make possible.

"Genetron" propellants are ideally suited for formulating a wide range of aerosols... household, drug, cosmetic, agricultural, industrial and many others. Offering optimum vapor pressures and excellent compatibilities, they can give your product many priceless competitive advantages in terms of performance and sales appeal over products marketed in ordinary containers.

Following are the principal "Genetron" propellants which bring new versatility to aerosol packaging.

**GENETRON 12:** Dichlorodifluoromethane was the first fluorinated hydrocarbon gas to be widely used as an aerosol propellant. It still ranks as

most important. Compatible with many product ingredients, it is often used in formulations where its high vapor pressure is required. An important use for "Genetron" 12 is with paint and lacquer formulations where its characteristics help eliminate "orange peel" and permit smooth, even coverage of paint.

**GENETRON 11:** Trichloromonofluoromethane came into prominent use as an aerosol propellant with the introduction of low-pressure containers. Many products, when formulated with straight "Genetron" 12, exceeded the ICC maximum pressure of 40 psi for this type of can. It was found that by using a blend of "Genetron" 11 and "Genetron" 12, the vapor pressure came well within the limits set for these "beer can" containers. "Genetron" 11's ability to act as an effective pressure depressant on "Genetron" 12, and its high solubility make it rate as a major aerosol propellant.

**GENETRON 12-GENETRON 11 MIXES:** Solutions of "Genetrons" 11 and 12 constitute the bulk of propellant re-

quirements for present pressurized products, due to the optimum vapor pressures, excellent compatibility with numerous materials, and economical costs achieved for products packaged with these propellants. The 50:50 mixture has proven to be the most widely accepted blend in use, although additional solutions varying from 25-90% "Genetron" 12 are enjoying acceptance for a variety of products. Variations in the proportions of "Genetrons" 12 and 11 in a given formulation will result in corresponding variations in the particle size of the spray, solubility characteristics, hydrolysis rates and comparative cost.

**GENETRON 320:** Dichlorotetrafluoroethane was introduced as an aerosol propellant commercially when it was found that mixes of dichlorodifluoromethane and trichloromonofluoromethane, in certain formulations (notably those containing water), produced an undesirable reaction that affected the metal containers. It was found that by substituting "Genetron" 320 for trichloro-



## TYPICAL AEROSOL PRODUCTS

Any product that can be brushed, daubed, dusted or sprayed on is a likely prospect for aerosol packaging. At right is a partial listing of the many products now being sold as aerosols which are formulated with "Genetron" Propellants.

Adhesive sprays  
Air refreshers  
Antibiotics  
Anti-histamines  
Anti-perspirants  
Artificial snow  
Artists' fixatives  
Athlete's foot preventatives  
Bactericides  
Bandage sprays  
Belt lubricators  
Bird repellents

Burn ointments  
Charcoal lighters  
Chrome preservatives  
Cleaning fluids  
Colognes  
Dairy insecticides  
Dehydrator sprays  
Deodorants  
Design layout inks  
Dust absorbers  
Dye penetrants  
Fabric color sprays

Fabric renewers  
Fire extinguishers  
Flea killers (pet)  
Flower tints  
Fluorescent lacquers  
Foam preventatives  
Foot relief sprays  
Fur glazers and dyes  
Furniture polishes  
Garlic sprays  
Glare-proof glass sprays  
Golf ball renewers



# Aerosol Propellants

## for Every Aerosol Need!

monofluoromethane in these formulations the unfavorable reaction was eliminated. Blends of "Genetron" 320 and "Genetron" 12 made possible a number of new aerosol products in the drug and cosmetic field.

**GENETRON 101:** Monochlorodifluoroethane is finding increased use as a propellant for cosmetic formulations containing substantial proportions of alcohol, such as perfumes. In fact, some manufacturers indicate that "Genetron" 101 not only has unique odor stability, but in some cases actually enhances the fragrance of their perfumes. Important feature of "Genetron" 101 is that it is a single compound (not a mixture), possessing constant boiling point and thus maintaining constant vapor pressure and uniform performance during entire discharge of the aerosol. Other important characteristics of "Genetron" 101 are its high vapor volume and low liquid density. When filling on a fluid ounce basis, this means manufacturers can use a greater volume of product ingredient per ounce of propellant.

The following "Genetrons," because of one or more special characteristics, suggest uses principally as blending agents with the foregoing "Genetron" propellants.

**GENETRON 226:** Trichlorotrifluoroethane has a high liquid density and low vapor pressure that make it particularly suitable for blending with other "Genetrons" in such formulations as dry powders or foam products.

**GENETRON 141:** Monochlorodifluoromethane may be used as a blend-

ing agent where its high vapor pressure and excellent solvent properties are required.

**GENETRON 100:** Difluoroethane (1-1) has unique solvent characteristics that make it useful as a blending agent.

**SPECIAL PROPELLANTS:** Though the propellants listed on these pages represent the great bulk of those used in the Aerosol Industry, there are still others available for use where special properties are required.

For Further Information Send for Our Illustrated Technical Manual and Market Data Book

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**genetron department**

**GENERAL CHEMICAL DIVISION**

ALLIED CHEMICAL & DYE CORPORATION

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Greenhouse insecticides  
Hair lacquers  
Hand lotions  
Hosiery protectants  
Ignition coatings  
Ignition system driers  
Insect repellents  
Leather dressings  
Lubricants  
Metal lubricants  
Metal polishes

Mildew preventatives  
Moth proofers  
Mold release sprays  
Nasal relief sprays  
Paints and lacquers  
Paint and varnish removers  
Penetrant oils  
Perfumes  
Plant insecticides  
Plastic protective coatings  
Polishing oils  
Poultry inhalants

Residual insecticides  
Rust cutters  
Rust preventatives  
Screen enamels  
Shampoos  
Shaving creams  
Shoe polishes  
Silverware coatings  
Ski waxes  
Soil fumigants  
Spot removers  
Static eliminators

Stencil inks  
Suede restorers  
Sunburn lotions  
Sun tan oils  
Tape removers  
Topical anesthetics  
Water repellents  
Waxes  
Weed killers  
Window cleaners

# Du Pont can help you select the best propellant for your aerosol product



**Space spray, residual spray, foam or powder**—Du Pont can furnish a carefully formulated "Freon" propellant best for your aerosol product. Requirements of pressure, solubility, stability, particle size and safety are sure to be met by one of the over 25 "Freon" propellant solutions available from Du Pont.

One of these "Freon"\* propellant solutions  
is exactly right for your aerosol product

"FREON" PROPELLANT	PRODUCT TYPE			
	SPACE SPRAY	SURFACE SPRAY	POWDER SPRAY	WATER-BASED FORMULAE
"FREON-12" dichlorodifluoromethane	(high-pressure, ✓ 70 psig)	✓		
"FREON-12"—"FREON-11" solutions dichlorodifluoromethane trichloromonofluoromethane	(pressure range ✓ 30-40 psig)	(pressure range ✓ 12-40 psig)	(pressure range ✓ 10-70 psig)	
"FREON-114" dichlorotetrafluoroethane		(12 psig) ✓		
"FREON-12"—"FREON-114" solutions dichlorodifluoromethane dichlorotetrafluoroethane			(pressure range ✓ 12-70 psig)	✓ (12-60 psig, also for glass- bottled aerosols)
"FREON-12"—"FREON-113" solutions dichlorodifluoromethane trichlorotrifluoroethane			(pressure range ✓ 10-70 psig)	✓

**NOTE:** This chart indicates types of "Freon" propellants available. The exact one chosen will depend on the product dispensed and the spray pattern desired. "Freon-12"—"Freon-114" solutions are recommended for water-base products because of their stability in presence of water.



These outstanding qualities  
make Du Pont "Freon"  
your best propellant buy

- ▶ Safe—nonflammable, nonexplosive, virtually nontoxic.
- ▶ Noncorrosive.
- ▶ Stable and uniform in quality.
- ▶ Available in wide range of pressures.
- ▶ Good solvency properties.
- ▶ Applicable to all types of aerosols—sprays, foams, powders.
- ▶ Backed up with complete marketing and laboratory service.

You can call on Du Pont's experienced chemists and marketing experts if you need help with your aerosol manufacturing or sales problems. Be sure to call on Du Pont, also, to supply just the right aerosol propellant for your product. For more information or assistance write to E. I. du Pont de Nemours & Co. (Inc.), "Kinetic" Chemicals Division, Wilmington 98, Delaware.



#### AEROSOL PRODUCTS, FILLED CONTAINERS (Contd.)

Connecticut Chem. Research Corp., Bridgeport 5, Conn.  
Davies Young Soap Co., Dayton, Ohio  
Edco Corp., Elkton, Md.  
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
General Chemical Div., Allied Chemical & Dye Corp.,  
40 Rector St., N. Y. 6  
Gulf Oil Corp., Pittsburgh 30, Pa.  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9, Ill.  
Lenk Co., P. O. Box 324, Franklin, Ky.  
Powr-Pak, Inc., 647 North Ave., Bridgeport, Conn.  
Regal Chemical Corp., 115 Dobbins St., B'klyn 22, N. Y.  
Ronor Corp., 1360 W. 9th St., Cleveland, Ohio  
Sparklet Devices, Inc., 272 Badger Ave., Newark 8, N. J.  
Sprayon Products, Inc., 2075 E. 65th St., Cleveland  
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James Varley & Sons, 1200 Switzer Ave., St. Louis  
Virginia Smelting Co., W. Norfolk, Va.  
Uncle Sam Chem. Co., 575 W. 131 St., N. Y. 27  
Williams Chem. Co., 487 Broadway, N. Y. 13  
G. H. Wood & Co., Box 34, Toronto, Ont., Canada

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Rector St., N. Y. 6  
Kinetic Chemicals Div., E. I. du Pont de Nemours &  
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Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phil-  
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#### AGITATORS (see Mixing Machinery)

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Carbide & Carbon Chemicals Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flournoy  
St., Chicago 12, Ill.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Dixie Solvents & Chems. Co., Dixie Highway at Apple-  
ton Lane, Louisville, Ky.  
Eastman Chemical Prods., Kingsport, Tenn.  
Enjay Co., 15 W. 51 St., N. Y. 19  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co.,  
230 Park Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Monsanto Chem. Co., 1700 2nd St., St. Louis  
Ohio Solvents & Chemicals Co., 3470 W. 140th St.,  
Cleveland 11, Ohio  
Publicker Industries, Inc., 1429 Walnut St., Phila. 2  
Shell Chem. Corp., 50 W. 50 St., N. Y. 20  
Southern Solvents & Chemicals Corp., 1354 Jefferson  
Highway, New Orleans 18, La.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
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Joseph Turner & Co., Ridgefield, N. J.  
U. S. Industrial Chemicals, Inc., 99 Park Ave., N. Y.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd  
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Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
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#### ALCOHOL (Methyl or Wood) (see also Methanol)

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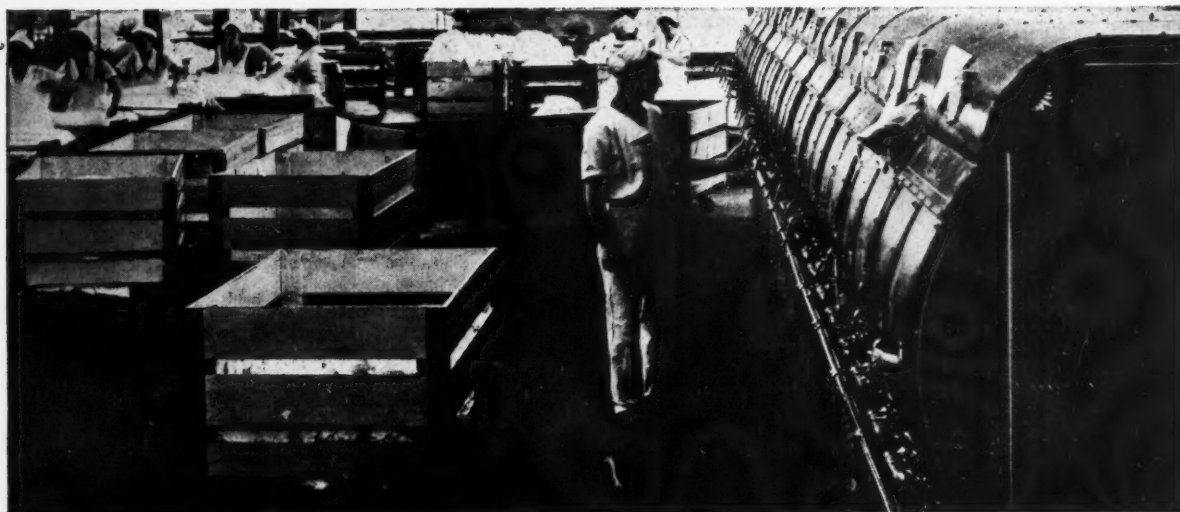
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Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.  
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Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.  
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Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio  
Olin Mathieson Chem. Corp., Baltimore 3  
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Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
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Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
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Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chemical Co., 26 Verona Ave., Newark, N. J.

## ARSENICAL DIPS

Baird & McGuire, Inc., Holbrook, Mass.  
California Spray-Chemical Corp., Richmond, Calif.  
Chem. Insecticide Corp., 12 Montague St., Bklyn.  
Chipman Chemical Co., Bound Brook, N. J.  
Crystal Soap & Chemical Co., 6300 State Rd., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore 31, Md.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
James Good Co., 2104 Susquehanna Ave., Phila.  
Hysan Prods., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
McLaughlin Gormley King Co., Minneapolis  
Thompson-Hayward Chemical Co., 2015 Southwest Blvd., Kansas City, Mo.  
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis

## ATOMIZERS (see Sprayers and Atomizers, Bottle)

## BAG LINERS (see Liners)

## BAGS (Cloth)

Bemis Bro. Bag Co., 601 S. 4th St., St. Louis  
Chase Bag Co., 309 W. Jackson Blvd., Chicago  
Fulton Bag & Cotton Mills, Atlanta, Ga.  
Hammond Bag & Paper Co., Wellsburg, W. Va.  
Mente & Co., Montegut & N. Villere Sts., New Orleans  
Virginia-Carolina Chem. Corp., Richmond, Va.

## BAGS (Multiwall)

Arkell & Smiths, Canajoharie, N. Y.  
Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y.  
Bemis Bro. Bag Co., 601 S. 4th St., St. Louis  
Chase Bag Co., 509 W. Jackson Blvd., Chicago  
Continental Can Co., 100 E. 42 St., N. Y. 17  
Fulton Bag & Cotton Mills, Atlanta  
Hammond Bag & Paper Co., Wellsburg, W. Va.  
Hudson Pulp & Paper Co., 505 Park Ave., N. Y.  
Kraft Bag Corp., 630—5th Ave., N. Y. 20  
National Container Corp., 7 Central Park West, N. Y. 23  
St. Regis Paper Co., 230 Park Ave., N. Y.  
Union Bag & Paper Corp., 233 Broadway, N. Y.

## BAGS, Paper

American Bag & Paper Corp., Water & South Sts., Phila.  
Chase Bag Co., 309 W. Jackson Blvd., Chicago  
Equitable Paper Bag Co., 45-50 Van Dam St., Long Island City, N. Y.  
Gaylord Container Corp., 111 N. 4th St., St. Louis  
Robert Gair Co., 155 E. 44 St., N. Y.  
Milprint, Inc., Milwaukee 1, Wisc.  
Oneida Paper Prods. Co., Clifton, N. J.  
Premier Bag Co., Lyndhurst, N. J.  
Union Bag & Paper Corp., 233 Broadway, N. Y.  
Western Waxed Paper Div., Crown Zellerbach Corp., San Leandro, Calif.

## BAGS (Transparent Film)

American Bag & Paper Corp., Water & South Sts., Phila.  
Arkell Safety Bag Co., 10 E. 40 St., N. Y. 16  
Arvey Corp., 3462 N. Kimball Ave., Chicago  
Bemis Bros. Bag Co., St. Louis 2  
Canton Containers, Inc., Canton, O.  
Chase Bag Co., 309 W. Jackson Blvd., Chicago  
Continental Can Co., 100 E. 42 St., N. Y.  
Equitable Paper Bag Co., 45-50 Van Dam St., Long Island City, N. Y.  
H & R Industries, Nazareth, Pa.  
Howard Plastics, Council Bluffs, Iowa  
Milprint, Inc., Milwaukee, Wisc.  
Nashua Corp., Nashua, N. H.  
Oneida Paper Prods., Inc., 10 Clifton Blvd., Clifton, N. J.  
Poly Plastic Prods., Inc., 230 State Highway 17, Lodi, N. J.  
Standard Packaging Corp., 551 5th Ave., N. Y.

## BALSAMS (See Essential Oils)

## BARREL LINERS (see Liners)

## BARRELS (Fibre)

Carpenter Container Co., 147—41st St., Brooklyn  
Continental Can Co., 100 E. 42 St., N. Y. 17  
Federal Fibre Corp., 3704 10th St., Long Island City 1, N. Y.  
Fibre Drum Co., 20 N. Wacker Dr., Chicago 6  
Master Package Corp., Owen, Wisc.  
Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago 29  
Seymour & Peck Co., Blue Island, Ill.

## BARRELS (Metal)

Bennett Industries, Peotone, Ill.  
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.  
Continental Can Co., 100 E. 42 St., N. Y. 17  
Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
Inland Steel Container Co., 6532 S. Menard St., Chicago  
Jones & Laughlin Steel Corp., Pittsburgh 30  
National Steel Container Co., 6700 S. LeClaire Ave., Chicago  
Pressed Steel Tank Co., Milwaukee, Wis.  
Republic Steel Package Co., 7930 Jones Rd., Cleveland  
Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago  
St. Louis Steel Package Co., St. Louis  
U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y.  
Vulcan Containers Inc., Bellwood, Ill.  
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.  
Wheeling Corrugating Co., Wheeling, W. Va.

## BARRELS (Wooden)

Atlas Plywood Corp., Boston 16, Mass.  
Edwin Bell Cooperage Co., S. 17th St., Pittsburgh  
Duff California Co., 100 Bush St., San Francisco  
John Eppler Co., 1204 S. Sharp St., Baltimore  
Gibbs Bros. Cooperage Co., Hot Springs, Ark.  
Greif Bros. Cooperage Corp., Delaware, O.  
International Cooperage Co., Hyde Park Blvd., Niagara Falls, N. Y.  
Monmouth Container Corp., Matawan, N. J.  
Virginia Barrel, 178 Holland Ave., Staten Island, N. Y.

## BARREL TILTERS

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Formula Floor Products, 99 Frelinghusen Ave., Newark, N. J.  
Morse Mfg. Co., E. Syracuse, N. Y.

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## BASE OILS (see Insecticide Base Oils)

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Hewitt Soap Co., Dayton, O.

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Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y. (Unperfumed)  
Trio Chem. Wks., 341 Scholes St., Brooklyn  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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American Colloid Co., Merchandise Mart Plaza, Chicago  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Minerals & Chems. Corp. of America, Menlo Park, N. J.  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
F. E. Schundler & Co., Joliet, Ill.  
Tamms Industries, Inc., 228 N. La. Salle St., Chicago  
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Charles A. Wagner Co., 813 Callowhill St., Phila.  
Welch Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

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Berje Chemical Prod. Co., 359 West Broadway, N.Y.C.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
P. R. Dreyer, Inc., 601 W. 26 St., N. Y.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Heyden Chem. Co., 342 Madison Ave., N. Y. 17  
Lautier Fils, 321 Fifth Ave., N. Y. 16  
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Schimmel & Co., 601 W. 26th St., N. Y.  
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Tombarel Products Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Avenue of the Americas, N. Y.  
van Ameringen-Haebler, Inc., 521 W. 57 St., N. W. 19  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chemical Co., 26 Verona Ave., Newark 4, N. J.

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Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Michigan Chemicals Corp., St. Louis, Mich.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
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John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.  
Westvaco Mineral Prods. Div., Food Mach. & Chem. Corp., 161 E. 42nd St., N. Y.  
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Central Solvents & Chemicals Co., 2540 Flournoy St.,  
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Dixie Solvents & Chems. Co., Dixie Highway at Apple-  
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Enjay Co., 15 W. 51 St., N. Y. 19  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
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Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
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St. Louis  
Neville Chemical Co., Pittsburgh  
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land  
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Mallinckrodt Chem. Wks., St. Louis 7  
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Minerals & Chems. Corp. of America, Menlo Park, N. J.  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
Tamm Industries, Inc., 228 N. LaSalle St., Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
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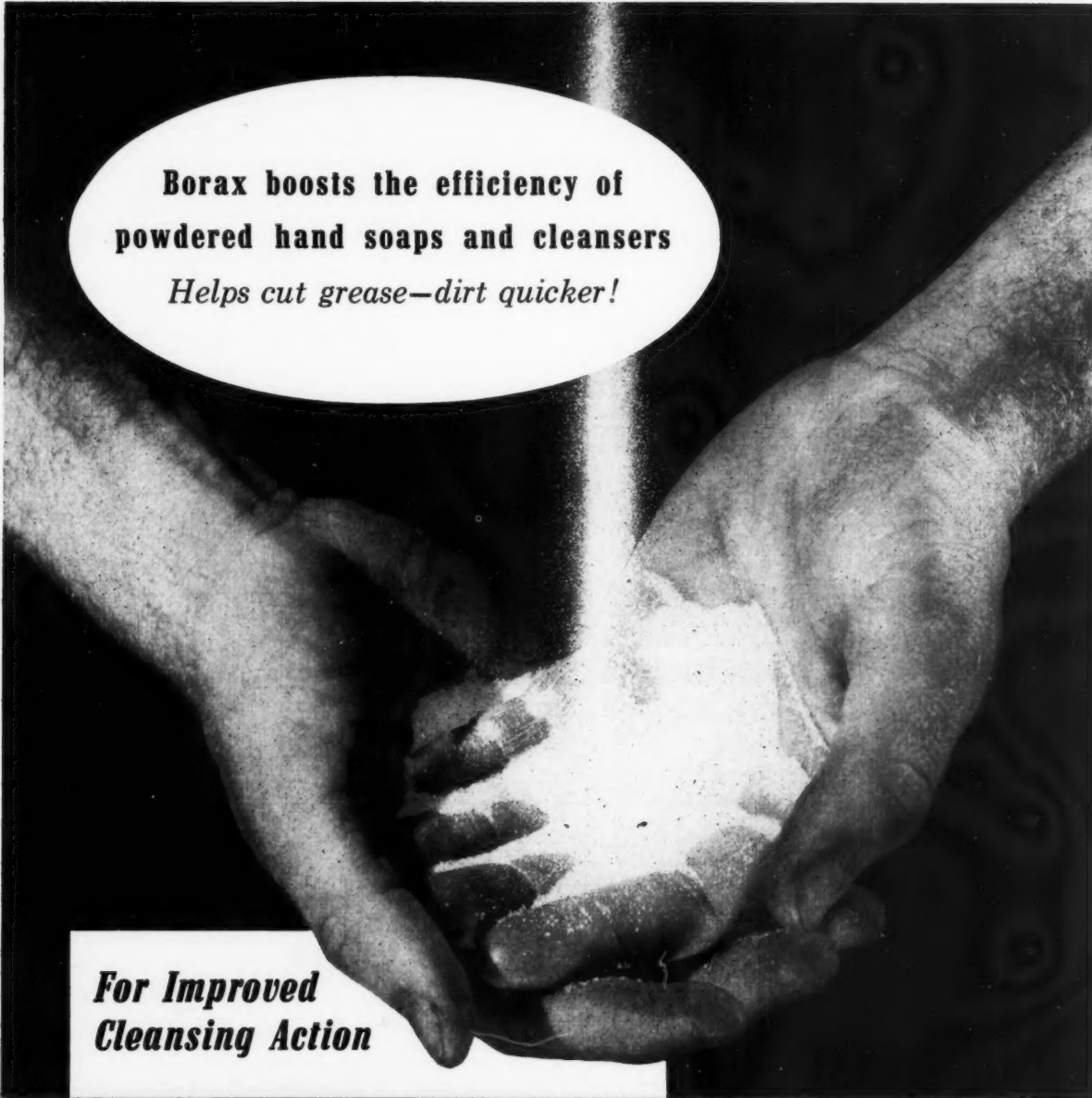
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General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Pacific Coast Borax Co., 100 Park Ave., N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
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Cambridge Paper Box Co., Cambridge, Mass.  
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Arnold, Hoffman & Co, Providence, R. I.  
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
John H. Calo Co., 19 Rector St., N. Y. 6  
John A. Chew, Inc., 60 E. 42nd St., N. Y.  
Simon Cytron Trading Co., 50 Broad St., N. Y.  
Dickerson Co., Drexel Bldg., Phila.  
Globe Chem. Co., Murray Rd., Cincinnati  
Griffin Chem. Co., 1000 16th St., San Francisco  
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.  
Chas. L. Huisking & Co., 155 Varick St., N. Y.  
C. Lievense, 11 Broadway, N. Y. 4  
P. J. Lo Bue Co., 277 Park Ave., N. Y.  
Leo Pasternak, Inc., 110 William St., N. Y.  
Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10  
Riches-Nelson, Inc., 342 Madison Ave., N. Y.  
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2  
Robeco Chems., Inc., 23 E. 26th St., N. Y.  
Schmitz-Schoenewald-Turner Co., 20 Vesey St., N. Y. 7  
Siegel Chemical Co., 1 Hanson Pl., Bklyn.  
George Uhe, Inc., 76 9th Ave., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
G. A. Wharry & Co., 125 Broad St., N. Y. 4

## BROKERS (Oils and Fats)

American-British Chem. Supplies, 180 Madison Ave.,  
N. Y. 16  
Irving R. Boody Co., 120 Wall St., N. Y.  
John H. Calo Co., 19 Rector St., N. Y. 6  
Simon Cytron Trading Co., 50 Broad St., N. Y.  
Davidson Commission Co., 327 S. La Salle St., Chicago  
John W. Hall, 327 S. La Salle St., Chicago  
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y.  
Hentz & Co., 60 Beaver St., N. Y.  
Chas. Hollingshead Co., Produce Exchange, N. Y.  
E. G. James Co., 316 S. La Salle St., Chicago  
C. Lievense, 11 Broadway, N. Y. 4  
Marwood Co., 221 N. LaSalle, Chicago  
Miller & Co., 2401 Chestnut St., Philadelphia  
Rayner & Stonington, Inc., 79 Wall St., N. Y.  
Revere Oil & Chemical Co., 23 E. 26 St., N. Y. 10  
Roesling, Monroe & Co., 133 Front St., N. Y.  
Robeco Chems., Inc., 23 E. 26th St., N. Y.  
Sterne & Son Co., Board of Trade Bldg., Chicago  
Weaver & Hugi, Inc., Produce Exchange Bldg., N. Y.  
Welch, Holme & Clark Co., Inc., 439 West St., N. Y. 14  
G. A. Wharry & Co., 125 Broad St., N. Y.  
Wilson Brokerage, Inc., Produce Exchange, N. Y.

## BROOMS

Alabama Broom & Mattress Co., Huntsville, Ala.  
Brooklyn Fibre Broom Co., 47 Dinsmore Pl., Brooklyn 8  
Eagle Woodenware Co., Hamilton, O.

Flour City Brush Co., 1501—4th Ave., S. Minneapolis  
W. E. Kautenberg Co., Freeport, Ill.  
Laitner Brush Co., 2000 Brooklyn Ave., Detroit  
Moran Brush Mfg. Co., Hamden, Conn.  
Ox Fibre Brush Co., Frederick, Md.  
Vining Broom Co., 530 Columbus Ave., Springfield, O.

## BRUSHES

American Standard Mfg. Co., 2509 S. Green St., Chicago  
Brooklyn Fibre Broom Co., 14 Dinsmore Pl., Bklyn. 8  
Empire Brushes, Inc., 200 William St., Port Chester,  
N. Y.  
Flour City Brush Co., 1501—4th Ave., S., Minneapolis  
J. I. Holcomb Co., Barth Ave., Indianapolis  
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
W. E. Kautenberg Co., P. O. Box 255, Freeport, Ill.  
Laitner Brush Co., 2000 Brooklyn Ave., Detroit  
Moran Brush Mfg. Co., 30 Manila Ave., Hamden, Conn.  
National Brush Co., Aurora, Ill.  
Ox Fibre Brush Co., Frederick, Md.  
Ransom Brush Co., 1051 W. Division St., Chicago  
Zimmerman Brush Works, Inc., 900 W. Lake St., Chicago

## BULK SOAPS (see Chip Soap, Laundry Soap)

## CAJUPUT OIL (see Essential Oils)

## CALCIUM CARBONATE (Chalk, Marble Dust, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
H. J. Baker & Bro., 271 Madison Ave., N. Y.  
Calcium Carbonate Co., 222 W. Adams St., Chicago  
Harry T. Campbell Sons' Corp., Towson 4, Baltimore  
Delore Div., National Lead Co., St. Louis 11  
Charles B. Chrystal Co., 53 Park Pl., N. Y.  
Diamond Alkali Co., Cleveland  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
Georgia Marble Co., Tate, Ga.  
Robeco Chemicals, Inc., 23 E. 26 St., N. Y.  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
Thompson, Weinman & Co., 52 Vanderbilt Ave., N. Y. 17  
Charles A. Wagner Co., 813 Callowhill St., Phila.  
Whittaker, Clark & Daniels, Inc., 260 W. Broadway,  
New York  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

## CALCIUM CHLORIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Columbia-Southern Chem. Corp., Gateway, Pittsburgh  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

## CALCIUM HYPOCHLORITE

Columbia-Southern Chem. Corp., Gateway, Pittsburgh  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
Penn. Salt Mfg. Co., 3 Penn Center Plaza  
Jos. Turner & Co., Ridgefield, N. J.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Virginia-Carolina Chem. Corp., Richmond, Va.

## CALCIUM STEARATE (see Stearates)

## CAMPBOR OIL (see Essential Oils)

## CAN FILLING MACHINERY (see Filling Machinery, Cans)

## CANDELILLA WAX (see Waxes)

## CAN SPOUTS AND NOZZLES

Am. Flange & Mfg. Co., 30 Rockefeller Plaza, N. Y.  
Crown Cork & Seal Co., Baltimore, Md.  
Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
George D. Ellis & Son, American & Luzerne St., Phila. 40  
Rieke Metal Products Corp., Auburn, Indiana  
Seal Spout Corp., 363 Jelliff Ave., Newark 8, N. J.  
(for cartons)  
Standard Containers, Inc., Montclair, N. J.  
Vulcan Containers Inc., Bellwood, Ill.  
Z & W Machine Prods., Inc., 30240 Lakeland Blvd., Wick-  
liffe, O.

## CANS (Fibre or Paper)

American Can Co., 100 Park Ave., N. Y.  
Cin-Made Corp., 800 E. Ross Ave., Cincinnati  
Cleveland Container Co., 6201 Barberton Ave., Cleveland  
Continental Can Co., 100 E. 42nd St., N. Y.  
Cross Paper Products Corp., 4377 Bronx Blvd., N. Y. 66  
Federal Fibre Corp., 3704 10th St., Long Island City,  
N. Y. 1  
Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.  
National Paper Can Co., Cudahy, Wis.  
Niemand Bros., Inc., 37-01 35th Ave., L.I.C., N. Y.  
R. C. Can Co., 9430 Page Blvd., St. Louis  
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
Sealright Co., 500 Fifth Ave., N. Y.  
Sutherland Paper Co., Kalamazoo, Mich.  
United Can Co., New Village, N. J.

## CANS, GARBAGE (See Garbage Cans)

## CANS (Sifter Top)

Burdick & Son, 72 Hamilton St., Albany, N. Y.  
Cleveland Container Co., 6201 Barberton Ave., Cleveland  
Cin-Made Corp., 880 E. Ross Ave., Cincinnati  
Continental Can Co., Inc., 100 E. 42nd St., N. Y.  
Cross Paper Products Corp., 4377 Bronx Blvd., N. Y., 66  
Crown Can Div., 9300 Ashton Rd., Phila.  
Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.  
National Can Corp., 3217 W. 47 Pl., Chicago  
Niemand Bros., Inc., 37-01 35th Ave., L.I.C., N. Y.  
R. C. Can Co., 9430 Page Blvd., St. Louis  
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago  
Sefton Fibre Can Co., 3275 Big Bend Blvd., St. Louis  
Standard Container, Inc., Bloomfield, N. J.  
Sutherland Paper Co., Kalamazoo, Mich.  
United Can Co., New Village, N. J.

## CANS (Metal)

American Can Co., 100 Park Ave., N. Y.  
Burdick & Son, 72 Hamilton St., Albany 1, N. Y.  
Central Can Co., 2415 W. 9th St., Chicago  
J. L. Clark Mfg. Co., Rockford, Ill.  
Continental Can Co., Inc., 100 E. 42nd St., N. Y.  
Crown Can Div., 9300 Ashton Rd., Philadelphia  
Eastern Can Co., Keap St. & Kent Ave., Brooklyn 11  
George D. Ellis & Son, American & Luzerne St., Phila.  
40  
Fein's Tin Can Co., Bush Terminal, Brooklyn  
National Can Corp., 3217 W. 47 Pl., Chicago 32  
Olive Can Co., 450 N. Leavitt St., Chicago  
St. Louis Can Co., 904 S. 14th St., St. Louis  
Standard Container, Inc., Montclair, N. J.  
Stern Can Co., 71 Locust St., Boston 25  
Vulcan Containers Ltd., Box 284, Toronto, Can.  
Vulcan Containers Inc., Bellwood, Ill.  
Vulcan Steel Container Co., 3315 N. 35 Ave., Birming-  
ham, Ala.

## CAPPING MACHINERY

Anchor Hocking Glass Corp., Lancaster, O.  
Consolidated Packaging Machinery Corp., 1400 West  
Ave., Buffalo  
Crown Cork & Seal Co., Baltimore, Md.  
Ertel Engineering Corp., West Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago

R. G. Haskins Co., 2661 W. Harrison St., Chicago  
Hornsey & Co., 420 Lexington Ave., N. Y.  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago 22, (used)  
M. R. M. Co., 191 Berry St., Brooklyn  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
Pneumatic Scale Corp., North Quincy, Mass.  
Resina Automatic Mchy. Co., 572 Smith St., Brooklyn  
Triangle Package Machy. Co., 6633 W. Diversey Blvd.,  
Chicago 51  
Tite-Cap Machine Co., 57 Rose St., N. Y. 7  
U. S. Bottlers Mchy. Co., 4015 N. Rockwell St., Chicago

## CAPS (Molded)

Anchor Hocking Glass Corp., Lancaster, Ohio  
Armstrong Cork Co., Lancaster, Pa.  
General Plastics, Inc., N. Tonawanda, N. Y.  
Owens-Illinois Glass Co., Toledo, Ohio  
Resinox Corp., Terre Haute, Ind.  
Standard Cap & Molding Co., 307 S. Eaton St., Baltimore

## CAPS (Metal)

Aluminum Co. of America, Gulf Bldg., Pittsburgh  
Anchor Hocking Glass Corp., Lancaster, Ohio  
Armstrong Cork Co., Lancaster, Pa.  
Ball Brothers Co., Muncie, Ind.  
Closure Service Co., Toledo, Ohio  
Continental Can Co., 100 E. 42nd St., N. Y.  
Crown Cork & Seal Co., Baltimore, Md.  
National Seal Co., 14th Ave., & 37th St., Brooklyn  
Owens-Illinois Glass Co., Toledo, Ohio  
Phoenix Metal Cap Co., 2444 W. 16th St., Chicago  
West Penn Mfg. & Supply Corp., Brackenridge, Pa.

## CARBOLIC ACID (see Phenol)

## CARBON for bleaching oils, glycerine, etc., (see Decolorizing Carbons)

## CARBON TETRACHLORIDE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
J. T. Baker Chemical Co., Phillipsburg, N. J.  
Buffalo Solvents & Chemicals Corp., Box 73 Station B,  
Buffalo 7, N. Y.  
Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17  
Central Solvents & Chemicals Co., 2540 W. Flournoy St.,  
Chicago 12, Ill.  
Diamond Alkali Co., 300 Union Commerce Bldg.,  
Cleveland 14  
Dixie Solvents & Chems. Co., Dixie Highway and Apple-  
ton Lane, Louisville, Ky.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis 22, Ind.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Ohio Solvents & Chemicals Co., 3470 W. 140th St.,  
Cleveland 11, Ohio  
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Texas Solvents & Chemicals Co., 8501 Market St., Hous-  
ton 15, Texas  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Westvaco Chlor-Alkali Div., Food Mach. & Chem. Corp.  
161 E. 42nd St., N. Y.  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemical Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

#### CARBOXYMETHYCELLULOSE (CMC)

Antara Chemicals, Div. of General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

#### CARNAUBA WAX (see Waxes)

#### CARTON LINING MACHINES (see Lining Machinery)

#### CARTON SEALING MACHINERY (see Sealing Machinery)

#### CARTONING MACHINERY

Battle Creek Packaging Machines, Inc., Battle Creek,  
Mich.  
Chisholm-Ryder Co. of Pa., Hanover, Pa.  
J. L. Ferguson Co., Joliet, Ill.  
Hornney & Co., 420 Lexington Ave., N. Y.  
R. A. Jones & Co., Cincinnati, Ohio  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago (Used)  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 3000 St. Charles Rd., Bellwood, Ill.  
Standard-Knapp Div., Portland, Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Machinery Co., 6633 W. Diversey  
Blvd., Chicago 51  
Weigh Right Automatic Scale Co., 404 Grant Ave., Jo-  
liet, Ill.

#### CARTONS (see Boxes)

#### CARTS, Trash (see Trash Carts)

#### CASE LOADING MACHINERY

Battle Creek Packaging Machines, Inc., Battle Creek,  
Mich.  
Chisholm-Ryder Co., Hanover, Penna.  
J. L. Ferguson Co., Joliet, Ill.  
R. A. Jones & Co., Cincinnati  
Hornney & Co., 420 Lexington Ave., N. Y.  
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati  
Newman Tallow & Soap Machy. Co., 1051 W. 35 St.,  
Chicago (Used)  
Pneumatic Scale Corp., N. Quincy, Mass.  
Standard-Knapp Div. of Emhart Mfg. Co., Portland,  
Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

#### CASE SEALING MACHINERY (see Sealing Machinery)

#### CASEIN

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. -  
Borden Co., 350 Madison Ave., N. Y.  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Land-O-Lakes Creameries, Minneapolis  
Swift & Co., Chicago 9  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### CASES (Corrugated) (see Boxes)

#### CASSIA OIL (see Essential Oils)

#### CASTILE SOAP, BAR

Armour & Co., 1355 W. 31st St., Chicago  
Brunswick Soap Co., 240 Plymouth St., Brooklyn  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Duveen Soap Corp., 36-14 35 St., Long Island City 6,  
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Haskins Bros. & Co., Omaha  
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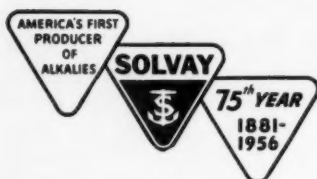
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 Lockwood-Brackett Co., Waltham Station, Boston  
 Mem Co., 67 Irving Pl., N. Y. 3  
 Original Bradford Soap Wks., West Warwick, R. I.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Dist. Co., Cincinnati 1  
 Schmidt Soap Products, 236 W. North Ave., Chicago  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Chicago  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## CASTILE SOAP, LIQUID

Aid Soap Mfg. Co., Rochester, Pa.  
 Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.  
 Analab Laboratories, 285 Franklin St., Boston 10  
 Antiseptol Co., 5524 Northwest Highway, Chicago  
 Armour Industrial Soap Dept., Chicago 9  
 Baird & McGuire Inc., South St., Holbrook, Mass.  
 Baums Castorine Co., 200 Matthew St., Rome, N. Y.  
 Chemical Service of Baltimore, Howard & West St., Baltimore 30  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
 Davies-Young Soap Co., Dayton, O.  
 Duveen Soap Corp., 36-14 35 St., Long Island City, N. Y.  
 Eagle Soap Corp., Huntington, Ind.  
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 Hewitt Soap Co., Dayton, O.  
 Higley Chem. Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kranich Soap Co., 54 Richards St., Brooklyn  
 Midland Laboratories, 210 Jones St., Dubuque, Iowa  
 Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Chicago  
 Trio Chem. Wks., 341 Scholes St., Brooklyn  
 J. A. Tumbler Labs., 423 Hanover St., Baltimore  
 U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
 Uncle Sam Chem. Co., 575 W. 131st St., N. Y.  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## CASTOR OIL

(see also Dealers)

Archer-Daniels-Midland Co., Minneapolis  
 Baker Castor Oil Co., 120 Broadway, N. Y.  
 Brazilian Industrial Oils, Inc., 75 West St., N. Y. 6  
 T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
 George Degen & Co., 111 Broadway, N. Y.  
 Otto A. C. Hagen Co., 929 Public Ledger Bldg., Phila.  
 Michael Hassel, 75 West St., N. Y. 6 (importers)  
 Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
 Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
 Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Ang. 23  
 J. H. Redding, Inc., 177 Battery Place, N. Y.  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
 Swift & Co., Chicago  
 Arthur C. Trask Co., 4103 S. La Salle St., Chicago  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## CASTOR OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis, Minn.  
 Baker Castor Oil Co., 120 Broadway, N. Y. 5  
 Emery Industries, 4200 Carew Tower, Cincinnati  
 Harchem Div., Wallace & Tiernan, Inc., P. O. Box 178, Newark N. J.  
 Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Jos Turner & Co., Ridgefield, N. J.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Woburn Chemical Corp., Harrison, N. J.

## CATALYTIC AGENTS

American Cyanamid Co., Industrial Chemicals Div., 30 Rockefeller Plaza, N. Y.  
 J. T. Baker Chemical Co., Phillipsburg, N. J.  
 Davison Chemical Corp., Baltimore 3, Md.  
 Filtrol Corp., 3250 E. Washington Blvd., Los Angeles  
 General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 Harshaw Chemical Co., 1945 E. 97 St., Cleveland 6  
 Lucidol Div., Wallace & Tiernan, Inc., Buffalo 5, N. Y.  
 Olin Mathieson Chem. Corp., Baltimore  
 Oronite Chem. Co., 200 Bush St., San Francisco, Calif.  
 Raney Catalyst Co., Hamilton National Bank Bldg., Chattanooga, Tenn.

## CATTLE DIPS AND SPRAYS

Baird & McGuire, Inc., Holbrook, Mass.  
 Barger Chems., Inc., Norwalk, Conn.  
 California Spray-Chemical Corp., Richmond, Calif.  
 Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17  
 Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
 Chemical Service of Baltimore, Howard & West St., Baltimore  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Chipman Chem. Co., Bound Brook, N. J.  
 Davies-Young Soap Co., Dayton, O.  
 Dow Chem. Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington, Dela.  
 Eagle Soap Corp., Huntington, Ind.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, Inc., Blue Island, Ill.  
 Higley Chem. Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 James Huggins & Son, 239 Medford St., Malden, Mass.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Hunt Mfg. Co., Lisbon Rd., Cleveland  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
 Lorenz Chem. Co., 135 N. 32nd Ave., Omaha  
 McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis, Minn.  
 Michigan Chem. Corp., St. Louis, Mich.  
 Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
 Olin-Mathieson Chem. Corp., Baltimore  
 Peck's Prod. Co., 610 E. Clarence Ave., St. Louis  
 Penna. Salt Mfg. Co., 3 Penn. Center Plaza, Phila.  
 Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.  
 Rex Research Corp., Toledo  
 Shell Chemical Corp., 50 W. 50th St., N. Y. 19  
 Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
 Standard Oil Co. (Ind.), 910 S. Mich. Ave., Chicago  
 Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
 Stauffer Chemical Co., 380 Madison Ave., N. Y.  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.  
 Trio Chem. Wks., 341 Scholes St., Brooklyn 6  
 Uncle Sam Chem. Co., 575 W. 131st St., N. Y.  
 U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
 James Varley & Sons, 1200 Switzer Ave., St. Louis  
 Velsicol Corp., 330 E. Grand Ave., Chicago  
 Robert C. White Co., Chestnut Hill, Phila.

## CATTLE SPRAY BASE (see Insecticide Base Oils)

## CAUSTIC POTASH (see Potash)

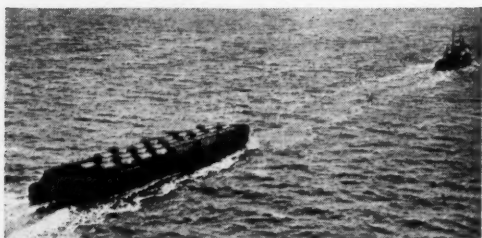
## CAUSTIC SODA

(see also Dealers)

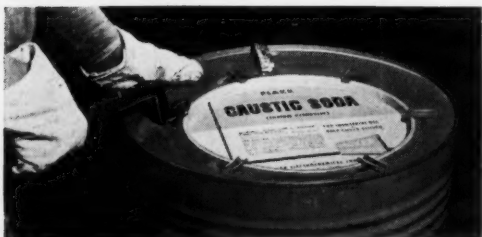
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 Columbia Southern Chem. Corp., Gateway, Pittsburgh  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland 14  
 Dow Chemical Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington  
 Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.



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- 2 Savings by barge.** If you use large amounts of 50% liquid caustic soda and can take water delivery, you may make substantial savings with Hooker barge service. All Hooker plants and most stock points are on or near deep water.



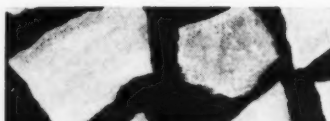
- 3 Buying by the drum?** There's probably a Hooker jobber nearby who can give you fast, reliable l/c/l delivery of 50% liquid or flake caustic soda. We'll be glad to put you in touch with him.

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 LOS ANGELES ..... NEvada 6-3826  
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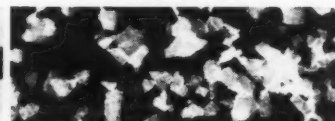


## Why you'll prefer caustic soda from Hooker

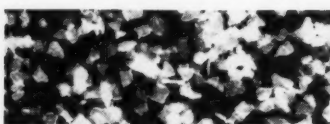
*Photos actual size*



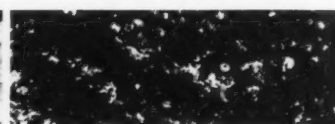
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- 4 Nondusting flake or powdered.** For specialty processing or repackaging, these four sizes give you a choice to meet every requirement. Regular, fine, and crystal sizes are nondusting. Flakes are thick enough to stand up well in transit, so you always get the size you order, without waste.

- 5 Need technical help?** This *Caustic Soda Buyer's Guide* booklet gives details on forms and grades, packages, shipping. It's just one example of a host of services on tap to help you buy caustic soda economically, handle it safely, use it profitably. For a copy of this handy pocket-size booklet, write us today.

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Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Westvaco Chlor-Alkali Div., Food Mach. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemical Corp., Michigan Alkali Div., Wyandotte, Mich.

CEDAR LEAF OIL (see Essential Oils)

CEDARWOOD OIL (see Essential Oils)

CERESIN WAX (see Waxes)

CHALK (see Calcium Carbonate)

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Atlas Sponge Co., 2520 S. Damen Ave., Chicago 8  
Beverly Mfg. Co., 494 Main St., Boston 29  
Great Eastern Sponge & Chamois Co., 833 N. Patt. Pk. Ave., Baltimore  
Jos. Neihaus Co., 341 W. 4th St., Cincinnati  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Schroeder & Tremayne, Inc., 1711 Delmar Blvd., St. Louis 3

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Blockson Chem. Co., Joliet, Ill.  
Dow Chem. Co., Midland, Mich.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem & Dye Corp., 40 Rec-tor St., N. Y. 6  
Glyco Prods. Co., 350 5th Ave., N. Y.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y.  
Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
Penn. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Chas Pfizer & Co., 630 Flushing Ave., Bklyn.  
Process Chems. Co., Sorenson Lane, Whittier, Calif.  
Refined Prods. Corp., 624 Schuyler Ave., Lyndhurst, N. J.  
Rumford Chem. Wks., Rumford, R. I.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Victor Chem. Wks. 155 N. Wacker Drive, Chicago  
Westvaco Chem. Div., Food Machy. & Chem. Corp., 161 E. 42 St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

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Buhler Bros., Inc., 221 State Highway #4, Ft. Lee, N. J.  
Houcin Machy. Co., Hawthorne, N. J.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Lukens Steel Co., Coatesville, Pa.  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
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Chas. Ross & Son Co., 150 Classon Ave., Brooklyn 5  
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E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Du Bois Soap Co., Cincinnati, Ohio  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
J. Eavenson & Sons, Camden, N. J.  
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
Haskins Bros. & Co., Omaha  
Hewitt Soap Co., Dayton, Ohio  
R. M. Hollingshead Corp., Camden, N. J.  
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Los Angeles Soap Co., Los Angeles, Calif.  
Marman Soap Co., 522 W. Juneau Ave., Milwaukee  
Geo. E. Marsh Co., 200 Broadway, Cambridge, Mass.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
National Soap Co., 357 South 25th St., Tacoma, Wash.  
Original Bradford Soap Wks., West Warwick, R. I.  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
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Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden 1, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
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Theobald Industries, P. O. Box 72, Harrison, N. J.  
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California Spray-Chemical Corp., Richmond, Calif.  
Cornell Chem. & Equipment Co., Dillon Hgts. Ave., Baltimore  
Dow Chemical Co., Midland, Mich.  
Douglas Chem. Co., 620 E. 16 Ave., N. Kansas City, Mo.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore 31  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chemical Division, Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
McLaughlin, Gormley, King Co., 1715 5th St., S. E., Minneapolis  
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Midland Laboratories, 210 Jones St., Dubuque, Iowa  
Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.  
Ottawa Chem. Co., 823 Hamilton St., Toledo, O.  
S. B. Penick & Co., 50 Church St., New York  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.  
J. W. Quinn Drug Co., Greenwood, Miss.  
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
M. D. Stetson Co., 64 Brookline St., Boston  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27  
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Monsanto Chemical Co., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
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Stauffer Chem. Co., 380 Madison Ave., N. Y.  
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Minerals & Chems. Corp. of America, Menlo Park, N. J.  
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Southeastern Clay Co., Aiken, S. C.  
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Analab Labs., 285 Franklin St., Boston 10  
Antara Chemicals, Div. of General Aniline & Film Corp., 435 Hudson St., N. Y.  
Antiseptol Co., 5024 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
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Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
Barger Chemicals, Inc., Main Ave., Norwalk, Conn.  
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Betco Corp., 830 Elysian Ave., Toledo, O.  
Bricco Laboratories, 1553 63rd St., Brooklyn 19  
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Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
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Curran Corp., Lawrence, Mass.  
Davies-Young Soap Co., Dayton, Ohio  
Dow Chemical Co., Midland, Mich.  
Diversey Corp., 1820 W. Roscoe St., Chicago 13  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Fagle Soap Corp., Huntington, Ind.  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Essential Chem. Co., 5906 N. Port Washington Rd., Milwaukee  
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Finnell System, Inc., 500 East St., Elkhart, Ind.  
Franklin Research Co., 5134 Lancaster Ave., Phila., Pa.  
Fuld Bros., 702 So. Wolfe St., Baltimore  
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
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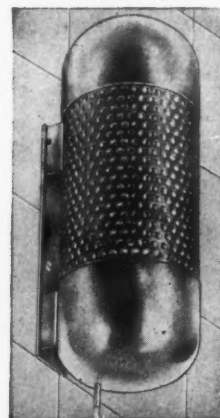
## DEODORANTS



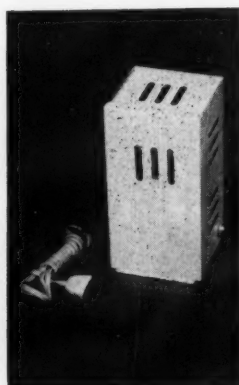
## WAXES



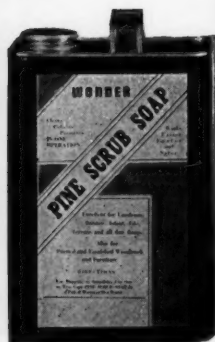
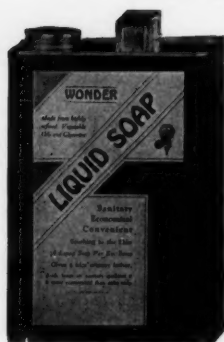
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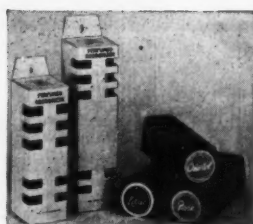
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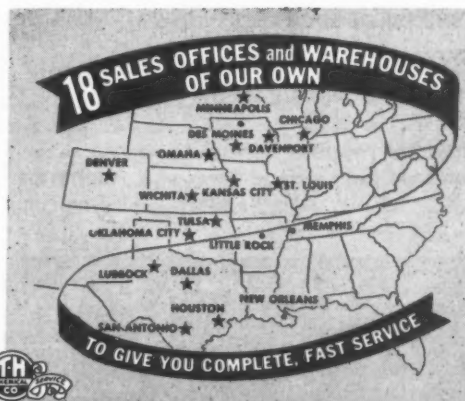
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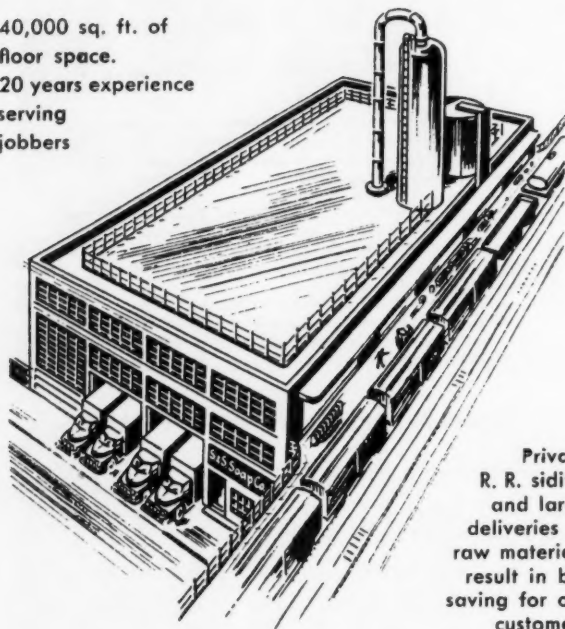
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 Capitol City Products Co., P. O. Box 569, Columbus, O.  
 T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34  
 Geo. Degen & Co., 111 Broadway, N. Y.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Eastern Industries, Inc., Ridgefield, N. J.  
 Foremost Food & Chem. Co., El Dorado Div., Oakland, Calif.  
 Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
 Spencer Kellogg & Sons, Buffalo, N. Y.  
 Pacific Veg. Oil Corp., 3125 E. 26 St., Los Angeles 23  
 J. H. Redding Co., 17 Battery Pl., N. Y.  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## COCONUT OIL FATTY ACIDS

Acme-Hardesty Co., 60 W. 42nd St., N. Y. C.  
 Archer-Daniels-Midland Co., Minneapolis 2  
 Armour Chemical Division, 1355 W. 31 St., Chicago 9  
 Capitol City Prods. Co., 525 W. 1st St., Columbus, O.  
 Concord Chemical Co., 205 S. 2nd St., Camden 1, N. J.  
 Darling & Co., 4201 S. Ashland Ave., Chicago 9  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Emery Industries, Carew Tower, Cincinnati 2  
 Foremost Food & Chem. Co., El Dorado Div., Oakland, Calif.  
 General Mills, Chemical Div., 400 2nd Ave. S., Minn. 1  
 A. Gross & Co., 295 Madison Ave., N. Y. 17  
 Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
 Spencer Kellogg & Sons, Buffalo, N. Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Welch, Holme & Clark Co., 439 West St., N. Y. 14  
 Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanson St., Phila.  
 Woburn Chem. Co., 1200 Harrison Ave., Kearny, N. J.  
 G. S. Ziegler & Co., 99 Church St., N. Y. 7

## COCONUT OIL SOAPS (see Hard Water Soaps)

COCONUT OIL BASE SOAP (see Potash Soaps)

COCONUT OIL SHAMPOO BASE (see Shampoo Base and Potash Soaps)

COCONUT OIL POWDERED SOAPS (see Soaps, Powdered)

COLLOID MILLS (Homogenizing Equipment)

Abbe Engineering Co., Little Falls, N. J.  
Chemicolloid Labs., Inc., 55 Herricks Rd., Garden City Park, N. Y.  
J. H. Day Co., 4932 Beech St., Cincinnati  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Gifford-Wood Co., Hudson, N. Y.  
Kinetic Dispersion Corp., 95 Botsford Pl., Buffalo, N. Y.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Manton-Gaulin Mfg. Co., 44 Garden St., Everett, Mass.  
Morehouse-Cowles, Inc., 1150 San Fernando Rd., Los Angeles  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Premier Mill Corp., 61 Gates Ave., Geneva, N. Y.  
Troy Engine & Machine Co., Troy, Penna.

COLORS, CERTIFIED

American Cyanamid Co., Pigments Div., 30 Rockefeller Plaza, N. Y. 20  
Ansbacher-Siegle Corp., Rosebank, Staten Island, N. Y.  
Fezandie & Sperrle, 205 Fulton St., New York  
Geigy Chemical Corp., 89 Barclay St., N. Y.  
General Dyestuff Co., Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati 12  
H. Kohnstamm & Co., 91 Park Place, New York  
Leeben Chemical Co., 140 West Broadway, N. Y. 13  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Pylam Products Co., 799 Greenwich St., New York  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

COLORS (Dyes for soaps, sprays, sweeping compounds, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Dye Specialties, Inc., 26 Journal Sq., Jersey City 6, N. J.  
Fezandie & Sperrle, 205 Fulton St., N. Y.  
Geigy Chemical Corp., 89 Barclay St., N. Y.  
General Dyestuff Co., Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
L&R Organic Prods. Co., 50 White St., N. Y. 13  
Leeben Chemical Co., 140 West Broadway, N. Y. 13  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
Pylam Products Co., 799 Greenwich St., N. Y.  
Sandoz Chem. Wks., 61 Van Dam St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

COMPLEXING AGENTS (see Sequestering Agents)

CONSULTANTS (Chemists, Engineers, Etc.)

Carl N. Anderson, 342 Madison Ave., N. Y. 17  
Applied Research Laboratories, Dayton, N. J.  
Louis C. Barail, 60 Freeman St., Brooklyn 22, N. Y.  
Benson Process Eng. Co., Eden, N. Y.  
Bowen Engineering, Inc., 10 Station Rd., North Branch, N. J.  
Columbus Labs., 33 N. State St., Chicago  
Alvin J. Cox, 1118 Emerson St., Palo Alto, Calif.

1956 BLUE BOOK

## Headquarters for Chemical Specialties Research



## PRECAUTIONARY LABELING MANDATORY

It is now mandatory in many sales territories for adequate caution wording to appear on packages, advising the purchaser of possible risks of use or misuse, and in many instances, *telling what to do in the event of an accident.*

Many manufacturers of chemical specialties and formulations are reviewing their labeling for compliance with the new safety legislation in a number of states and municipalities. There is increasing recognition of the need for more explicit label directions and warning statements for many chemical products sold for use in home and by industry.

Situations requiring warning statements may be hazards to people or hazards to property. Much of the new legislation is intended to cover accidental wrong use, such as swallowing by children of a product not intended for internal use. Other risks include skin irritation, harmful effects of vapors or possible fire or explosion.

Since many chemical specialties are mixtures, it frequently will be necessary to carry out special laboratory tests to determine the degree of potential hazard of a new formulation, or an old formulation where new legal requirements apply.

Our laboratories are in excellent position to establish the toxic hazard, for confirming the adequacy of warning labels or for preparing label copy for new formulations.

In addition to toxicological services, our laboratories offer companion services for determining fire hazard of a product, and for ascertaining hazard to property by the right or wrong use.

Your outline of your problem will bring our prompt reply as to what we can do for you, and the estimated cost of the service.

### Foster D. Snell, Inc.

RESEARCH LABORATORIES  
CHEMISTS • ENGINEERS  
29 W. 15 St. New York 11, N. Y.

**B**ainbridge, N. Y.  
altimore, Md.  
1138 E. North Ave.  
everly Hills, Calif.  
8350 Wilshire Blvd.





# MECCANICHE MODERNE

CORSO SEMPIONE, 51

BUSTO ARSIZIO (ITALY)

## CHARACTERISTICS OF THE "PISONI SAIX" PLANT

It is the only plant on the market which continuously cools soap with simultaneous extrusion of a continuous bar maintaining unchanged total fatty acids content as determined before cooling.

It comprises one special cooling plodder which, working without any endless screw, can extrude soaps made with fats having a high or low melting point even if containing high percentages of water or builders, namely:

- Pure soaps having 62-63% T.F.M.;
- Soaps having T.F.M. from 35% to 62-63%;
- Soaps having T.F.M. 62-63% with 25÷30% rosin;
- Soaps having 56% T.F.M. with 25-30% rosin, filled with silicate or soda carbonate;
- Mixing soaps having 100% coconut oil;
- Olive oil foots soaps;  
\*— Pure peanut oil soaps.
- Soaps with Phenol;
- Dry, pure or filled, soaps having T.F.M. contents from 35 to 70-72%;
- Transparent laundry or toilet soaps having 70-72% T.F.M.

Savings: Steam, 100% — Labor, 70% — water, 50% — power, 50%.

A fully automatic and continuous operation — only one workman to run the plant—small space requirements—absolutely no scraps—automatic perfuming.

By our process foaming capacity is highly increased—cakes undergo no deformation during storage neither moisture package.

These plants are manufactured for the following output capacities: 0.5 — 1 — 2 — 3 tons per hour.

We also manufacture:

Complete plants for piled toilet soaps — chips — synthetic detergents in beads form.

Free and without any obligation, ask for tenders — references—catalogues—soap samples—plants inspection.

## SOAPS & GLYCERINE

### DAVID THOM & Co. LTD

WHIT LANE WORKS  
SALFORD : 6

LANCS  
TELEPHONE PENOLTON 1833 1839  
TELEGRAM "THOM MANCHESTER"

THIS COMMUNICATION IS FROM

Office

RE JTT/MW.

14th July, 1955.

Messrs. Meccaniche Moderne,  
Casella Postale 180,  
BUSTO ARSIZIO,  
Italy.

Dear Sirs,

We are very pleased to inform you that you SAIX 2C Cooling Plodder is working most satisfactorily.

We are now utilising the machine for all our Bar Soap production which includes a wide variety of soaps all varying quantities and formulations.

We have found from experience that these soaps are far superior to soaps made by the older conventional methods. They have better washing and lathering properties and also do not distort or twist in storage.

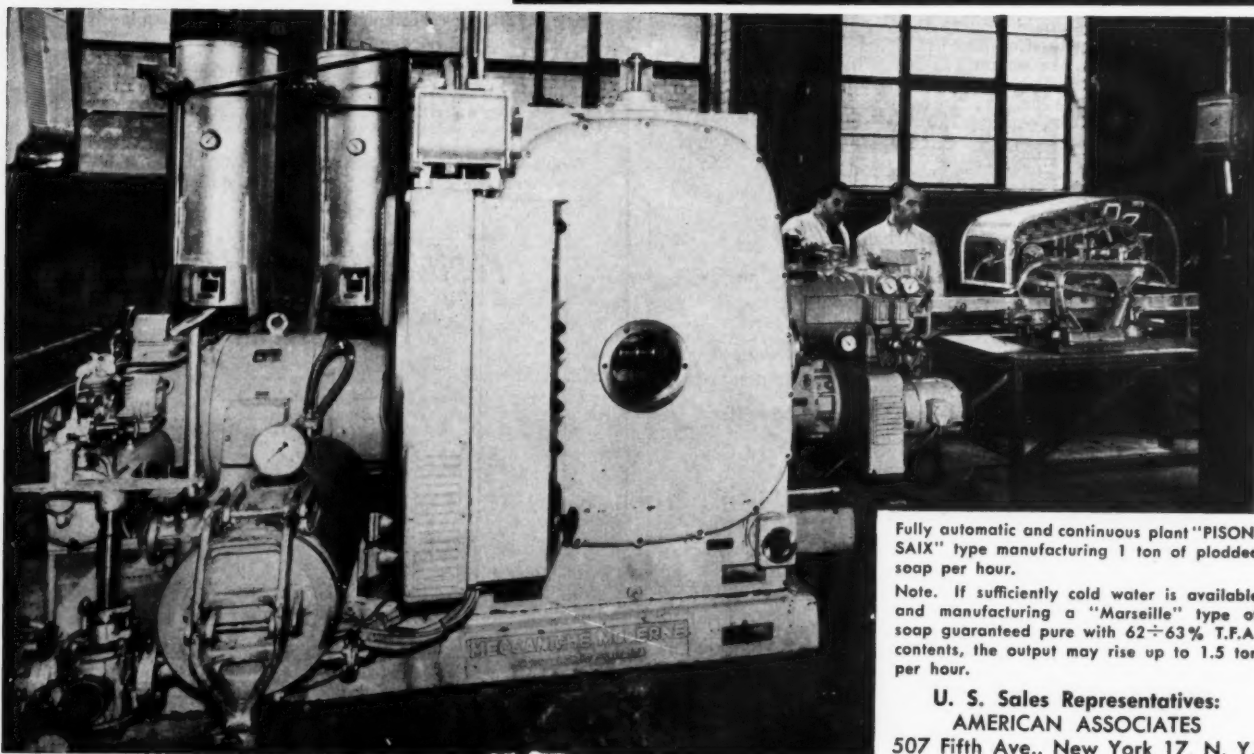
The savings in labour and scrap soap have far exceeded our expectations. The guaranteed output has been maintained in practice and the power and water consumption are well within your specifications.

In our opinion this machine is the most revolutionary piece of machinery introduced in the soap making industry in recent years. We can assure you of our complete satisfaction with its performance in all respects, and also we much appreciate the helpful service and advice which has been offered by you at every stage during the erection and trial periods.

We have every confidence in recommending this machine to any producer of household soap.

Yours faithfully,

*John T. Terleski*  
.....  
Mr. J. T. Terleski. (Director).



Fully automatic and continuous plant "PISONI SAIX" type manufacturing 1 ton of plodded soap per hour.

Note. If sufficiently cold water is available and manufacturing a "Marseille" type of soap guaranteed pure with 62÷63% T.F.A. contents, the output may rise up to 1.5 ton per hour.

U. S. Sales Representatives:  
AMERICAN ASSOCIATES  
507 Fifth Ave., New York 17, N. Y.



## CONSULTANTS (Contd.)

E. R. de Ong, 503 Market St., San Francisco  
 Wm. Garrigue & Co., 9 S. Clinton St., Chicago  
 Hill Top Research Institute, 925 Wm. H. Taft Rd., Cincinnati  
 Hudson Laboratories, 117 W. 13th St., N. Y. 11  
 Illinois Chemical Labs., Gridley, Ill.  
 James Laboratories, 189 W. Madison St., Chicago  
 Kroner Laboratories, Inc., 275 Water St., N. Y. C.  
 La Wall & Harrison, 214 S. 12th St., Phila.  
 Lederer Bacteriological Labs., 269 S. 19th St., Phila.  
 Alan Porter Lee Assoc., 19 South St., Morristown, N. J.  
 Harold A. Levey Laboratories, Oleander & Dublin Sts., New Orleans  
 J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
 C. C. McDonnell, 4703 Morgan Drive, Chevy Chase, Md.  
 Molnar Laboratories, 211 E. 19th St., N. Y.  
 Seil, Putt & Rusby, 16 E. 34th St., N. Y.  
 Foster D. Snell, 29 W. 15th St., N. Y.  
 Stillwell & Gladding, 130 Cedar St., N. Y.  
 Testfabrics, P. O. Box 567, Plainfield, N. J.  
 United States Testing Co., 1415 Park Ave., Hoboken, N. J.  
 Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

## CONTAINERS, STEEL SHIPPING (See Drums, Steel or Pails, Metal)

## CONTINUOUS PROCESS SOAP PLANTS

Emery Industries, Carew Tower, Cincinnati, O. (High Pressure Saponification Process)  
 G. Mazzoni, Busto Arsizio, Italy (Vacuum Process)  
 Meccaniche Moderne, Busto Arsizio, Italy  
 Refining Unincorporated, 70 W. 40th St., N. Y. 18  
 Sharples Corp., 23rd & Westmoreland Sts., Phila. 40  
 (Process Employing Centrifugals for the Production of Neat Soap)  
 Foster D. Snell, 29 W. 15 St., N. Y. 11  
 Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chgo.

## CONTRACT PACKAGING (see Packaging for the Trade)

## CONVEYORS (Bottles, Bags, Cans, Packages, etc.)

Alsop Engineering Corp., Milldale, Conn.  
 Chisholm-Ryder Co. of Pa., Hanover, Pa.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh  
 Houchin Machinery Co., Hawthorne, N. J.  
 Island Equip. Corp., 27-01 Bridge Plaza N., LIC, N. Y.  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 Link-Belt Co., 910 S. Michigan, Chicago  
 Loeb Equipment Supply Co., 824 W. Superior St., Chicago (Used)  
 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
 Franklin P. Miller & Son, 36 Meadow St., East Orange, N. J.  
 M. R. M. Co., 191 Berry St., Bklyn.  
 Newman Tallow & Soap Machy. Co., 1057 W. 35th St., Chicago (Used)  
 Pneumatic Scale Corp., North Quincy, Mass.  
 Rapids Machinery Co., Marion, Iowa  
 Read Standard Corp., York, Pa.  
 Sprout Waldron & Co., Muncy, Pa.  
 Standard Conveyor Co., N. St. Paul, Minn.  
 Standard-Knapp, Div. Emhart Mfg. Co., Portland, Conn.  
 Stephens-Adamson Mfg. Co., Aurora, Ill.  
 F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.  
 Tite-Cap Machine Co., 57 Rose St., N. Y. 7  
 Triangle Packaging Machy. Co., 6633 W. Diversey Blvd., Chicago  
 U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago  
 Weigh Right Automatic Scale Co., Joliet, Ill.

## COPPER NAPHTHENATE

Advance Solvents & Chem. Corp., 245 5th Ave., N. Y.  
 Cuprinol Div.—Darworth, Inc., Simsbury, Conn.  
 General Petroleum Corp. of Calif., 108 W. 2nd St., Los Angeles

## 1956 BLUE BOOK

Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
 Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
 Naftone, Inc., 515 Madison Ave., N. Y. 22  
 Oronite Chemical Co., 200 Bush St., San Francisco  
 Texas Solvents & Chem. Co., 8501 Market St., Houston

## COPPER SULFATE (Blue Vitriol)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 W. R. E. Andrews Sales, Inc., 1505 Race St., Philadelphia 2, Pa.  
 J. T. Baker Chem. Co., Phillipsburg, N. J.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Faesy & Besthoff, Inc., 325 Spring St., N. Y.  
 General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
 Irvington Smelting & Refining Co., 374 Nye Ave., Irvington, N. J.  
 Phelps Dodge Refining Corp., 40 Wall St., N. Y. 5  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
 Tennessee Corp., Atlanta, Ga.  
 Jos. Turner & Co., Ridgefield, N. J.

## CORKING MACHINERY

Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 Newman Tallow & Soap Mch. Co., 1051 W. 35th St., Chicago (Used)  
 Pneumatic Scale Corp., North Quincy, Mass.  
 Tite-Cap Machine Co., 59 Rose St., N. Y.  
 U. S. Bottlers Mch. Co., 4019 N. Rockwell St., Chicago

## CORKS

Continental Can Co., 100 E. 42 St., N. Y. 17  
 Armstrong Cork Co., Lancaster, Pa.  
 Dodge Cork Co., Lancaster, Pa.

## CORN OIL

(see also Brokers and Dealers)

American Maize Prods. Co., 250 Park Ave., N. Y.  
 Archer-Daniels-Midland Co., Minneapolis 2  
 Balfour, Guthrie & Co., Ltd., 67 Wall St., N. Y.  
 Commercial Solvents Corp., 260 Madison Ave., N. Y.  
 T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
 Corn Products Refining Co., 17 Battery Pl., N. Y.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
 Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
 Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.  
 National Starch Products, 270 Madison Ave., N. Y.  
 Pierce Oil Prods. Co., East Rochester, N. Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## CORN OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
 Armour Chemical Division, 1355 W. 31st St., Chicago  
 Capital City Prods. Co., 525 W. 1st St., Columbus, O.  
 Corn Prods. Sales Corp., 17 Battery Pl., N. Y. 4  
 Darling & Co., 4201 S. Ashland Ave., Chicago 9  
 Emery Industries, Carew Tower, Cincinnati  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 A. Gross & Co., 295 Madison Ave., N. Y. 17  
 Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
 A. E. Staley Mfg. Co., Decatur, Ill.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Joseph Turner & Co., Ridgefield, N. J.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanson St., Phila.  
 Woburn Chemical Corp., Harrison, N. J.  
 G. S. Ziegler & Co., 99 Church St., N. Y. 17

## CORN STARCH (see Starch)

## COSMETICS (Private Brand Compacts, Lipsticks, Etc.)

Avon Products, Inc., Suffern, N. Y.  
 Analab Labs., 285 Franklin St., Boston 10

## COSMETICS, PRIVATE BRAND (Contd.)

G. Barr & Co., 3601 S. Racine Ave., Chicago  
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.  
Curley Co., 1432 N. Randolph St., Phila.  
Richard Gesell, Inc., 200 W. Houston St., N. Y.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## COTTONSEED FATTY ACIDS (and Soapstock)

Archer-Daniels-Midland Co., Minneapolis 2.  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Capitol City Prods. Co., 525 W. 1st Ave., Columbus 16, O.  
Concord Chemical Co., 205 S. 2 St., Camden 1, N. J.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
General Mills, Chemical Div., 400 2nd Ave., S., Minn. 1  
A. Gross & Co., 295 Madison Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.  
J. H. Redding, Inc., 17 Battery Place, N. Y.  
Southern Cotton Oil Co., 25 Broad St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilson-Martin Div., Swanson St., Phila.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## COTTONSEED OIL

(see also *Brokers and Dealers*)

Eastern Industries, Inc., Ridgefield, N. J.  
Spencer Kellogg & Sons, Buffalo, N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
C. F. Simonin's Sons, Phila.  
Southern Cotton Oil Co., 25 Broad St., N. Y.  
Swift & Co., Industrial Oil Rept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## COUMARIN

(see also *Aromatic Chemicals*)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., 76 Ninth Ave., N. Y. 11  
Givaudan-Delawanna, 330 W. 42nd St., N. Y.  
Lautier Fils, 321 5th Ave., N. Y. 16  
Magnus, Mabee & Reynard, 16 Desbrosses Street, N. Y.  
Maywood Chemical Wks., Maywood, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Neumann, Buslee & Wolfe, Inc., 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26 St., N. Y.  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Rhodia, Inc., 230 Park Ave., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y.  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

## CREOSOTE OIL (see Coal Tar Raw Materials)

## CRESOL COMPOUND, U.S.P. and Technical (see Disinfectants, Coal Tar)

## CRESOLS

Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.  
Concord Chem. Co., 205 S. 2 St., Camden 1, N. J.  
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago  
James Huggins & Son, Malden, Mass.  
Koppers Co., Pittsburgh, Pa.  
Neville Chemical Co., Pittsburgh 25  
Penna. Industrial Chem. Corp., Clairton, Pa.  
Riches-Nelson, Inc., 342 Madison Ave., N. Y.  
Reilly Tar & Chemical Co., Merchant Bank Bldg., Indianapolis  
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.  
Standard Naphthalene Prods. Co., S. Kearny, N. J.  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
U. S. Steel Corp., Pittsburgh

## CRESYLIC ACID

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16  
Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Concord Chemical Co., 205 S. 2 St., Camden 1, N. J.  
Koppers Co., Chamber Commerce Bldg., Pittsburgh  
Merichem Co., 3101 Fannin St., Houston 4, Tex.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Reilly Tar & Chem. Corp., Merchant Bank Bldg., Indianapolis  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Shell Oil Co., 50 W. 50th St., N. Y. 20  
Standard Oil Co. of Calif., San Francisco  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
United States Steel Co., Pittsburgh, Pa.  
James Varley & Sons, 1200 Switzer Ave., St. Louis 18  
Wolverine Solvents & Chems. Co., 15 Century Ave., SW, Grand Rapids, Mich.

## CRUTCHERS

Edge Moor Iron Wks., Edge Moor, Del.  
Houchin Machinery Co., Hawthorne, N. J.  
Industrial Process Engineers, 8 Lister Ave., Newark 5  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
H. K. Porter Co., Oliver Bldg., Pittsburgh.  
Struthers-Wells Co., Warren, Pa.

## CUPS (see Paper Cups)

## CUTTING TABLES (see Soap Machinery)

## CYANIDES (see Fumigants) (see Sodium Cyanide)

## DAUBERS (see Shoe Polish Daubers)

## DAIRY SPRAYS (see Cattle Dips and Sprays)

## DD FUMIGANTS

Shell Chemical Corp., 50 W. 50 St., N. Y.

## DDT (Dichloro-diphenyl-trichloroethane) (Technical)

Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis, Mo.  
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

#### DDT FORMULATIONS (Liquids and Powders)

American Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
A-M-R Chemical Co., 985 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook, Mass.  
California Spray-Chemical Corp., Richmond, Calif.  
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.  
Chem. Insecticide Corp., 129 Montague St., Bklyn.  
Central Chemical Co., 5137 S. West Ave., St. Louis  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Elkay Prods. Co., 323 W. 16th St., N. Y. 11  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chemical Div., Allied Chemical & Dye Corp.,  
40 Rector St., N. Y.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
McLaughlin, Gormley, King Co., 1715 5th St., S.E.,  
Minneapolis  
Michigan Chemical Corp., St. Louis, Mich.  
Midland Laboratories, Dubuque, Iowa  
Miller Products Co., 1932 S. W. Water Ave., Portland,  
Ore.  
Old Empire, Inc., Mt. Prospect & Verona Ave.,  
Newark, N. J.  
S. B. Penick & Co., 50 Church St., N. Y.  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
John Powell & Co., Div. Olin Mathieson Chem. Corp.,  
Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
I. Schneid, Inc., 916 Ashby St., N.W., Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
Shell Chem. Corp., 50 W. 50th St., N. Y. 20  
Swift & Co., Chicago 9  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
Kansas City 8, Mo.  
Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
Uncle Sam Chemical Co., 575 W. 131 St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Westvaco Chlor Alkali Div., Food Machy. & Chem. Corp.,  
405 Lexington Ave., N. Y. 17  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

#### DEALERS (Chemicals)

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
Akron Chem. Co., 1025 Sweitzer Ave., Akron, Ohio  
American-British Chem. Supplies, 180 Madison Ave.,  
N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Road,  
Cincinnati 29, Ohio  
Axton-Cross Co., Shelton, Conn.  
Baker & Gaffney, Drexel Bldg., Philadelphia  
H. J. Baker & Bro., 271 Madison Ave., N. Y.  
Barada & Page, Kansas City, Mo.  
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
Banner Chemical Co., 20 N. Wacker St., Chicago  
Buffalo Solvents & Chemicals Corp., Box 73 Station B,  
Buffalo 7, N. Y.  
John H. Calo Co., 19 Rector St., N. Y. 6  
Central Solvents & Chemical Co., 2540 W. Flournoy St.,  
Chicago 12, Ill.  
John A. Chew, Inc., 60 E. 42nd St., N. Y.  
Consumers Chemical Co., Drexel Bldg., Philadelphia  
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34  
DeMert & Dougherty, Inc., 3001 W. 47th St., Chicago 32  
Dickerson Co., Drexel Bldg., Phila.  
Doe & Ingalls, 56 Garden St., Boston  
A. C. Drury & Co., 219 E. North Water St., Chicago  
Eastern Industries, Ridgefield, N. J.  
Eaton Clark Co., 1490 Franklin St., Detroit  
Faesy & Besthoff, 325 Spring St., N. Y.  
Alex C. Fergusson Co., Drexel Bldg., Phila.  
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Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City  
Globe Chemical Co., Murray Road, Cincinnati  
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 Hummel Chemical Co., 90 West St., N. Y.  
 Innis Speiden & Co. 420 Lexington Ave., N. Y.  
 E. & F. King & Co., 405 Atlantic Ave., Boston  
 C. Lievense, 11 Broadway, N. Y.  
 P. J. Lo Bue Co., 277 Park Ave., N. Y.  
 Los Angeles Chem. Co., 2200 Santa Fe Ave., Los Angeles  
 John F. Maher & Co., 1600 Henderson St., Houston, Tex.  
 Merchants Chemical Co., 60 E. 42nd St., N. Y.  
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.  
 Clarence Morgan & Co., 919 N. Michigan Ave., Chicago  
 Wm. D. Neuberger Co., 420 Lexington Ave., N. Y.  
 Newman Tallow & Soap Machinery Co., 1051 W. 35th St., Chicago  
 Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio  
 Philipp Bros. Chemicals, 37 Wall St., N. Y.  
 R. F. Revson Co., 144 W. 18th St., N. Y.  
 G. S. Robins & Co., 126 Chouteau Ave., St. Louis  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
 Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.  
 Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
 Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas  
 Thompson-Hayward Chem. Co., 2915 Southwestern Blvd., Kansas City  
 Arthur C. Trask Co., 4103 S. La Salle St., Chicago, Ill  
 Jos. Turner & Co., Ridgefield, N. J.  
 Chas. A. Wagner Co., 813 Callowhill St., Phila.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11, Michigan  
 G. A. Wharry & Co., 125 Broad St., N. Y. 4  
 Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
 Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

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 John H. Calo Co., 19 Rector St., N. Y. 6  
 T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
 Geo. Degen & Co., 111 Broadway, N. Y. 6  
 Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.  
 Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y.  
 H. D. Hornley Co., 34 S. 17 St., Phila.  
 O. G. Innes Corp., 82 Wall St., N. Y.  
 Leghorn Trading Co., 141 E. 44th St., N. Y. C.  
 Miller & Co., 2401 Chestnut St., Philadelphia  
 Murray Oil Products Co., 21 West St., N. Y.  
 Neats foot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.  
 Newman Tallow & Soap Machinery Co., 1501 W. 35th St., Chicago  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
 Willibald Schaefer Co., Foot of Boemen Ave., St. Louis  
 Sergeant Pulp & Chemical Co., 7 Dey St., N. Y.  
 Smith-Weihman Co., 15 Moore St., N. Y.  
 Swan-Finch Oil Corp., 205 E. 42nd St. N. Y.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Arthur C. Trask Co., 4103 S. La Salle St., Chicago  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 G. A. Wharry & Co., 125 Broad St., N. Y. 4

#### DECOLORIZING CARBONS

Atlas Powder Co., Wilmington, Del.  
 Cliffs-Dow Chem. Co., Marquette, Mich.  
 Darco Sales Corp., 60 E. 42nd St., N. Y.  
 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
 Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.

#### DEFOAMERS (Silicone)

Dow-Corning Corp., Midland, Mich.  
 General Electric Co., Waterford, N. Y.  
 Union Carbide & Carbon Co., 30 E. 42 St., N. Y. 17

#### DEGREASING COMPOUNDS (see Cleaners)

#### DEODORANT SOAP (see Soaps, Antiseptics)

#### DEODORANTS (Basic chemicals for deodorant toilet soaps, lotions, etc.)

Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 Dow Chem. Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Emulsol Chemical Corp., 59 E. Madison St., Chicago  
 Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati  
 Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
 Olin Mathieson Chem. Corp., Baltimore 3  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
 Ottawa Chem. Co., 819 Hamilton, Toledo, O.  
 Sindar Corp., 330 W. 42nd St., N. Y.  
 R. T. Vanderbilt Co., 230 Park Ave., N. Y.

#### DEODORANTS, Room Deodorants, Air Conditioning, Etc. (see Lists under Disinfectants; Glycol Sprays; Theatre Sprays)

#### DEODORIZED BASE OILS (See Insecticide Base Oils, Deodorized)

#### DEODORIZED KEROSENE (see Insecticide Base Oils)

#### DEODORIZING BLOCK HOLDERS

Allied Block Chemical Co., 428 Bingham St., Pittsburgh  
 Chem. Service of Baltimore, Howard & West Sts., Baltimore  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Cin-Made Corp. (fibre), 800 E. Ross Ave., Cincinnati 1  
 Eagle Soap Corp., Huntington, Ind.  
 Elkay Products Corp., 323 W. 16th St., N. Y.  
 Franklin Metal Prods. Co., 16 W. Kinzie St., Chicago  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kleenaire Kemikils, Inc., 2227 24th St., Detroit  
 Shore Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles  
 Uncle Sam Chem. Co., 573 W. 131 St., N. Y. 27  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
 G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

#### DEODORIZERS, ELECTRIC, etc. (see Vaporizers)

#### DEODORIZING BLOCKS AND CRYSTALS

Allied Block Chemical Co., 428 Bingham St., Pittsburgh  
 Airkem, Inc., 241 E. 44th St., N. Y.  
 Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
 A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18  
 Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Click Chemical Co., Columbus & Carleton Aves., Mt. Vernon, N. Y.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
 Davies-Young Soap Co., Dayton, O.  
 Eagle Soap Corp., Huntington, Ind.  
 Elkay Products Corp., 323 W. 16th St., N. Y.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Kleenaire Kemikils, Inc., 2227 24th St., Detroit  
 Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
 Midland Labs., Dubuque, Iowa  
 North Coast Soap & Chem. Wks., Seattle, Wash.  
 Pecks' Prods. Co., 610 E. Clarence Ave., St. Louis  
 Puritan Chemical Co., Atlanta, Ga.  
 Puro Co., 2801 Locust St., St. Louis  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 I. Schneid, Inc., 916 Ashby St., N. W., Atlanta, Ga.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.  
 M. D. Stetson Co., 64 E. Brookline St., Boston  
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#### DEODORIZING BLOCK PRESSES (see Presses)

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Foster-Wheeler Co., 165 Broadway, N. Y.  
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Alan Porter Lee Associates, 19 South St., Morristown, N. J.  
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Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y.  
Armour Chemical Div., Chicago 9  
Atlantic Refining Co., 260 S. Broad St., Philadelphia 1  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
Continental Oil Co., 630 5th Ave., N. Y. 20  
Archer Daniels Midland Co., 2191 W. 110th St., Minneapolis

Atlas Powder Co., Wilmington 99, Dela.  
Dehydtag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Dela.  
Enjay Co., 15 W. 51 St., N. Y. 19  
B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Indoil Chem. Co., 910 S. Michigan Ave., Chicago 80  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Marchon Prods., Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y. 4  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis 4  
National Aniline Div., Allied Chem & Dye Corp., 40 Rector St., N. Y.  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Oronite Chemical Co., 200 Bush St., San Francisco 20  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Refined Products, Inc., Lyndhurst, N. J.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Van Dyk & Co., Belleville 9, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

#### DETERGENT SPRAY TOWERS (see Spray Towers)

#### DETERGENTS (Alkali Type)

Aid Soap Mfg. Co., Rochester, Pa.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Buckingham Wax Co., 51-03 Van Dam St., LIC, N. Y.  
Blockson Chemical Co., Joliet, Ill.  
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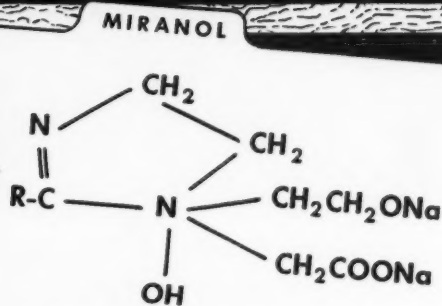


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 Dubois Soap Co., Cincinnati  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Economics Laboratory, Guardian Bldg, St. Paul  
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
 Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
 J. Chemical Wks., 602 W. 37th St., N. Y.  
 Harshaw Chem. Co., 1945 E. 97 St., Cleveland  
 Hysan Products Co., 932 W. 38th Pl., Chicago  
 Olin Mathieson Chemical Corp., Baltimore 3  
 M. Michel & Co., 90 Broad St., N. Y.  
 Moss Soap Co., Pinellas Int'l Airport, St. Petersburg, Fla.  
 National Milling & Chem. Co., 4601 Nixon St., Phila.  
 Peck's Products, 610 E. Clarence Ave., St. Louis  
 Pennsylvania Salt Mfg., Co., 3 Penn Center Plaza, Phila.  
 Philadelphia Quartz Co., 1146 Public Ledger Bldg., Phila.  
 Port Huron Detergent Co., Port Huron, Mich.  
 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stevens Soap Co., 200 Sullivan St., Brooklyn, N. Y.  
 Swift & Co., Chicago 9  
 Tesco Chemicals, Inc., Atlantic 5, Ga.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Treplew Products, Inc., 59 Camden St., Paterson, N. J.  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
 Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.  
 Victor Chemical Wks., 155 N. Wacker Dr., Chicago  
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Virginia  
 Westvaco Mineral Prods. Div., 161 E. 42 St., N. Y. 17  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

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E. I. du Pont de Nemours & Co., Wilmington  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
 Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
 Mona Industries, 65 E. 23 St., Paterson, N. J.  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17

## DETERGENTS, SYNTHETIC (Anionic), alkyl aryl sulfonates

Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
 Atlantic Refining Co., 260 S. Broad St., Phila. 1  
 Atlas Powder Co., Wilmington 99, Dela.  
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
 Continental Oil Co., 630 5th Ave., N. Y. 20  
 E. I. du Pont de Nemours & Co., Wilmington  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
 Geigy Industrial Chemicals, 89 Barclay St., N.Y. 8  
 Marchon Prods., Ltd., Whitehaven, Cumberland, England  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Mona Industries, 65 E. 23 St., Paterson, N. J.  
 Monsanto Chem. Co., St. Louis 4  
 National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
 Oronite Chemicals Co., 200 Bush St., San Francisco 20  
 Pilot Chem. Co., 215 W. 17 St., Los Angeles 14  
 Process Chems. Co., Sorenson Lane, Whittier, Calif.  
 Procter & Gamble Dist. Co., Cincinnati  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
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**DETERGENTS, SYNTHETIC (Anionic), ALKYL ARYL SULFONATES (Contd.)**

Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.  
Treprow Prods., Inc., 59 Camden St., Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St. Paterson N. J.  
Universal Detergents, Inc., 1825 E. Spring St., Long Beach 6, Calif.  
Warwick Chem. Co., 10-10 44th Ave., Long Island City, N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

**DETERGENTS, SYNTHETIC (Anionic), alkyl sulfates**

American Alcolac Corp., 344 Fairfield Rd., Baltimore 26  
Atlas Powder Co., Wilmington 99, Dela.  
DeHydag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Dela  
Fiber Chem. Corp., Matawan, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Emulsol Chemical Corp., 89 E. Madison St., Chicago  
Marchon Prods., Inc., Whitehaven, Cumberland, England  
M. Michel & Co. 90 Broad St., N. Y. 4  
Mona Industries, Inc., Paterson 4, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. Y.  
Process Chems. Co., Sorenson Lane, Whittier, Calif.  
Procter & Gamble Dist. Co., Cincinnati  
Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Rohm & Haas Co., Washington Square, Phila. 5  
Stanalchem Inc., 350 Madison Ave., N. Y.  
Stepan Chemical Co., 20 N. Wacker Dr., Chicago  
Treprow Prods., Inc., 59 Camden St. Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Warwick Chemical Co., 10-10 44th Ave., Long Island, N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

**DETERGENTS, SYNTHETICS (Anionic), alkyl sulfonates**

Atlas Powder Co., Wilmington 99, Dela.  
Carbide & Carbon Chem. Co., 30 E. 42 St., N. Y. 17  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fiber Chem. Corp., Matawan, N. J.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
Treprow Products, Inc., 50 Camden St., Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chem. Co., 10-10 44 Ave., Long Island City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 4  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

**DETERGENTS, SYNTHETIC (Anionic), sulfated and sulfonated amides and amines**

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fiber Chem. Corp., Matawan, N. J.  
Knapp Products, Inc., Lodi, N. J.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y. 4  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Mona Industries, 65 E. 23 St., Paterson, N. J.  
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BLANCOPHOR CN-76					✓							✓		—
BLANCOPHOR DS-77					✓							✓		—
EMULPHOGENE BC-720						✓		✓			✓			100%
EMULPHOGENE BC-840						✓		✓			✓			100%
IGEPAL SERIES	✓	✓	✓					✓			✓			100%
IGEPON AP-78	✓	✓	✓						✓			✓		85%
IGEPON T-33	✓	✓	✓				✓		✓		✓			32%
IGEPON T-77	✓	✓	✓						✓			✓		67%
IGEPON TC-42	✓	✓	✓				✓		✓		✓			22%
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Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Welch, Holme & Clarke Co., 439 West St., N. Y. 14  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

**DETERGENTS, SYNTHETIC (Anionic), Miscellaneous types**

Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
American Cyanamid Co., Industrial Chems. Div., 30 Rockefeller Plaza, N. Y. 20  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fiber Chem. Corp., Matawan, N. J.  
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.  
Knapp Products, Inc., Lodi, N. J.  
Marathon Corp., Chem. Sales Dept., Rothschild, Wisc.  
Marchon Prods., Ltd., Whitehaven, Cumberland, England  
Maywood Chem. Wks. 100 W. Hunter Ave., Maywood, N. J.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Monsanto Chem. Co., 1700 S. 2 St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago 16  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Procter & Gamble Dist. Co., Cincinnati  
Refined Products Inc., Lyndhurst, N. J.  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chemical Co., 20 N. Wacker Drive, Chicago  
Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.  
Treplow Products Inc., 59 Camden St., Paterson, N. J.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.  
Warwick Chem. Co., 10-10 44th Ave., Long Is. City, N.Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

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Armour Chemical Div., 1355 W. 31 St., Chicago 9  
Atlas Powder Co., Wilmington 99, Dela.  
Barger Chems., Inc., Norwalk, Conn.  
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Monsanto Chem. Co., 1700 S. 2 St., St. Louis  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.  
Procter & Gamble Dist. Co., Cincinnati  
Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18

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American Alcolac Corp., 3450 Fairfield Rd., Balto. 26  
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Armour Chemical Div., 1355 W. 31 St., Chicago 9  
Atlas Powder Co., Wilmington 99, Dela.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fiber Chem. Corp., Matawan, N. J.  
Knapp Prods., Inc., Lodi, N. J.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Process Chems. Co., Sorenson Lane, Whittier, Calif.  
Procter & Gamble Dist. Co., Cincinnati  
Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Refined Prods., Inc., Lyndhurst, N. J.  
Rohm & Haas Co., Washington Square, Phila. 5  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Treprow Prods., Inc., 59 Camden St., Paterson, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Warwick Chemical Co., 10-10 44th Ave., L. I. C., N. Y.

**DETERGENTS, SYNTHETIC (Finished), liquid,  
non-sudsing**

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City 1, N. Y.  
Antara Chemicals, General Aniline & Film Corp., 435  
Hudson St., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Barger Chems., Inc., Norwalk, Conn.  
Chem. Service of Balto., Howard & West Sts., Balto. 30  
Deko Chem. Co., 764 N. Hawthorne Blvd., Hawthorne,  
Calif.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Essential Chems. Co., 5906 N. Port Washington Rd.,  
Milwaukee  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Frontier Chem. Prods., Inc., 119 E. Soper St., St.  
Louis 11  
Fuld Bros. Inc., 702 S. Wolfe St., Baltimore 31  
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Klenzade Prods., Beloit, Wisc.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Monsanto Chem. Co., 1700 S. 2 St., St. Louis  
Moss Soap Co., Pinellas Int'l Airport, St. Petersburg,  
Fla.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Peck's Prod's Co., 610 E. Clarence Ave., St. Louis 15  
Procter & Gamble Dist. Co., Cincinnati  
Reilly Chem. Co., Industrial Prods. Div., P. O. Box 98,  
New Orleans, La.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
E. B. Snyder Laboratories, 2137 E. Harold St., Phila. 35  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
M. D. Stetson Co., 64 E. Brookline St., Boston 15  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson N. J.  
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.  
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8

**DETERGENTS, SYNTHETIC (Finished), liquid, sudsing**

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City 1, N. Y.  
Antara Chemicals, General Aniline & Film Corp., 435  
Hudson St., N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baird & McGuire, Inc., Holbrook, Mass.  
Barger Chems., Inc., Norwalk, Conn.  
Betco Corp., 830 Elysian Ave., Toledo 7, O.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chic. 8  
Chem Service of Balto., Howard & West Sts., Balto.  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
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Fuld Bros. Inc., 702 S. Wolfe St., Baltimore  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue  
Island, Ill.  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Eagle Soap Corp., 970 E. Tipton St., Huntington, Ind.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Kearny Mfg. Co., Kearny, N. J.  
Klenzade Prods., Beloit, Wisc.  
Magra-Krom Prods., 108 Sumner Ave., Vandergrift, Pa.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Maywood Chem. Wks. 100 W. Hunter Ave., Maywood,  
N. J.  
M. Michel & Co., 90 Broad St., N. Y. 4  
Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg,  
Fla.  
National Aniline Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
National Sanitary Products Co., 3944 Olive St., St. Louis  
Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago 16  
Nopco Chem. Co., 1 st & Essex Sts., Harrison, N. J.  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Procter & Gamble Dist. Co., Cincinnati  
Refined Prods., Inc., Lyndhurst, N. J.  
Reilly Chemical Co., Industrial Prods. Div., P. O. Box  
98, New Orleans, La.  
Royce Chem. Co., Carlton Hill, N. J.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
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E. B. Snyder Laboratories, 2137 E. Harold St., Phila. 25  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Surety Laboratories, 3946 Olive St., St. Louis 8  
Swift & Co., Chicago 9  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

**DETERGENTS, SYNTHETIC (Finished), powder  
non-sudsing**

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City 1, N. Y.  
Antara Chemicals, General Aniline & Film Corp., 435  
Hudson St., N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Essential Chems. Co., 2200 N. 32 St., Milwaukee 8  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Frontier Chem. Products, Inc., 119 E. Soper St., St.  
Louis 11  
Fuld Bros. 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Pl. Chicago  
Klenzade Prods., Beloit, Mich.  
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
Monsanto Chem. Co. St. Louis 4  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Science Industries, 1509 N. Broadway Ave., St. Louis  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
M. D. Stetson Co., 64 E. Brookline St., Boston, Mass.  
Swift & Co., Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Virginia-Carolina Chem. Corp., 401 E. Main St.,  
Richmond, Va.

**DETERGENTS, SYNTHETIC (Finished), powder, sudsing**

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City 1, N. Y.

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**SOLID CREAM...**

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DETERGENT

\*Du Pont trade-mark for surface-active agents



**DETERGENTS, SYNTHETIC (Finished), POWDER, SUDSING (Contd.)**

Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
 Armour Industrial Soap Dept., Chicago 9  
 Chicago Sanitary Prod. Co., 3100 E. Throop St., Chic. 8  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
 Continental Oil Co., 630 5th Ave., N. Y. 20  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
 Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.  
 Hysan Products Co., 932 W. 38th Pl., Chicago  
 Klenzade Prods., Beloit, Mich.  
 Marchon Prods. Ltd., Whitehaven, Cumberland, Eng.  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.  
 National Aniline Dv., Allied Chem & Dye Corp., 40 Rector St., N. Y.  
 National Milling & Chem. Co., 4601 Nixon St., Phila.  
 National Sanitary Prods. Co., 3944 Olive St., St. Louis 8  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15  
 Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
 Procter & Gamble Dist. Co., Cincinnati  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Science Industries, 1509 N. Broadway Ave., St. Louis  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
 M. D. Stetson Co., 64 E. Brookline St., Boston 16  
 Surety Laboratories, 3946 Olive St., St. Louis 8  
 Swift & Co., Chicago 9  
 Tesco Chemicals, Atlanta 4, Ga.  
 James Varley & Sons, 1200 Switzer Ave., St. Louis  
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Welch, Holme & Clarke Co., 439 West St., N. Y. 14

**DETERGENTS, SYNTHETIC (Non-Ionic), acid derivatives**

Antara Chems. Div., GAF, 435 Hudson St., N. Y. 14  
 Armour Chem. Div., 1355 W. 31 St., Chicago 9  
 Atlas Powder Co., Wilmington 99, Dela.  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Marchon Products, Ltd., Whitehaven, Cumberland, Eng.  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Monsanto Chem. Co., St. Louis  
 Ninol Laboratories, Inc., 1719 S. Clinton St., Chgo. 16  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
 Sharples Chems. Div., Penna. Salt Mfg. Co., Phila. 2  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
 Van Dyk & Co., Belleville 9, N. J.

**DETERGENTS, SYNTHETIC (Non-Ionic), alcohols and thiols**

Aceto Chem. Co., 40-40 Lawrence St., Flushing 54, N. Y.  
 Air Reduction Chem. Co., 60 E. 42 St. N. Y. 17  
 Antara Chems. Div., GAF, 435 Hudson St., N. Y. 14  
 Atlas Powder Co., Wilmington 99, Dela.  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 E. I. du Pont de Nemours & Co., Wilmington  
 Hercules Powder Co., 961 King St., Wilmington  
 Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Mona Industries, 65 E. 23 St., Paterson, N. J.  
 Monsanto Chem. Co., St. Louis 4  
 Sharples Chemicals Division, 3 Penn Center Plaza, Phila. 7  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago

**DETERGENTS, SYNTHETIC (Non-Ionic), phenols, naphthols and alkyl phenols**

American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
 Antara Chemicals, General Aniline & Film Corp., 435 Hudson St., N. Y.  
 Atlas Powder Co., Wilmington, Dela.  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Hercules Powder Co., 961 Market St., Wilmington, Del.  
 Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
 Marchon Prods. Ltd., Whitehaven, Cumberland, England  
 Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago 16  
 Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
 Oronite Chem. Co., 200 Bush St., San Francisco  
 Sharples Chems. Div., Penna. Salt Mfg. Co., Phila. 2  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stepan Chemical Co., 20 N. Wacker Dr., Chicago  
 Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
 Wyandotte Chems. Corp., Michigan Alkali Div., Wyandotte, Mich.

**DETERGENTS, SYNTHETIC (Non-Ionic), amides and amines**

American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
 American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 Antara Chems. Div., GAF, 435 Hudson St., N. Y. 14  
 Armour Chem. Div., 1355 W. 31 St., Chicago 9  
 Atlas Powder Co., Wilmington 99, Dela.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Fiber Chem. Corp., Matawan, N. J.  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 B. F. Goodrich Chem. Co., 324 Rose Bldg., Cleveland 15  
 Kearny Mfg. Co., Kearny, N. J.  
 Knapp Prods., Inc., Lodi, N. J.  
 Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
 Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
 Ninol Laboratories, Inc., 1719 S. Clinton St., Chicago, Ill.  
 Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
 Process Chems. Co., Sorenson Lane, Whittier, Calif.  
 Refined Products, Inc., Lyndhurst, N. J.  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
 Swift & Co., Chicago 9  
 Treplow Products, Inc., 59 Camden St., Paterson, N. J.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Van Dyk & Co., Belleville 9, N. J.  
 Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
 Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
 G. S. Ziegler & Co., 99 Church St., N. Y. 7

**DETERGENTS, SYNTHETIC (Non-Ionic), miscellaneous types**

Air Reduction Chem. Co., 60 E. 42 St., N. Y. 17  
 American Alcolac Corp., 3440 Fairfield Rd., Baltimore  
 American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 Antara Chems. Div., GAF, 435 Hudson St., N. Y. 14  
 Atlas Powder Co., Wilmington 99, Del. ,  
 Blockson Chem. Co., Joliet, Ill.  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 Fiber Chem. Corp., Matawan, N. J.  
 Hercules Powder Co., 961 Market St., Wilmington  
 Knapp Products, Inc., Lodi, N. J.  
 Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.  
 M. Michel & Co., 90 Broad St., N. Y. 4  
 Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
 Mona Industries, 65 E. 23 St., Paterson, N. J.  
 Monsanto Chem. Co., St. Louis 4  
 Nopco Chem. Co., 1 st. & Essex Sts., Harrison, N. J.  
 Olin Mathieson Chem. Corp., Baltimore 3  
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
 Process Chems. Co., Sorenson Lane, Whittier, Calif.

**DETERGENTS, SYNTHETIC (Non-ionic) MISCELLANEOUS TYPES (Contd.)**

Rohm & Haas Co., Washington Square, Phila. 5  
Sharples Chems. Div., Penna. Salt Mfg. Co., Phila. 2  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago  
Van Dyk & Co., Belleville 9, N. J.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Warwick Chem. Co., 10-10 44 Ave., Long Is. City, N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

**DIATOMACEOUS EARTH**

Charles B. Chrystal Co., 53 Park Pl., N. Y. 7  
Dicalite Div., 612 S. Flower St., Los Angeles  
Eagle-Picher Co., Cincinnati, O.  
Johns-Manville Prods. Corp., 22 E. 40 St., N. Y. 16  
Tamm Industries, 228 N. LaSalle St., Chicago  
Whittaker Clark & Daniels, 260 W. Broadway, N. Y.

**DIELDRIN**

Shell Chemical Corp., 50 W. 50 St., N. Y.

**DIELDRIN FORMULATIONS**

Agricultural Chemicals, Inc., Greenville, Miss.  
Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
Atlas Chem. Corp., Waynesboro, Ga.  
California Spray-Chemical Corp., Richmond, Calif.  
Carolina Chemicals, Inc., West Columbia, S. C.  
Chapman Chemical Co., 707 Dermon Bldg., Memphis,  
Tenn.  
Chipman Chemical Co., Bound Brook, N. J.  
Coahoma Chemicals, Inc., Beacon, N. Y.  
Crop-Saver Chem. Co., 3511 Potomac Ave., Chicago  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Flag Sulphur & Chem. Co., Tampa, Fla.  
Florida Agricultural Supply Co., P. O. 658, Jacksonville,  
Fla.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
McLaughlin, Gormley King Co., 1715 5th St., Minne-  
apolis, Minn.  
Naco Fertilizer Co., Charleston, S. C.  
S. P. Penick & Co., 50 Church St., N. Y. 8  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg.,  
Pittsburgh  
Plainsman Supply Co., Plainview, Tex.  
John Powell & Co., Div. Olin Mathieson Chem. Corp.,  
Baltimore  
Reasor-Hill Corp., Jacksonville, Ark.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Triangle Chemical Co., Macon, Ga.  
Tyner Petrus Co., W. Monroe, La.  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Woolfolk Chem. Wks., Port Valley, Ga.

**DIES (see Soap Dies)**

**DIETHANOLAMINE (see Ethanolamine)**

**DIETHYLENE GLYCOL (see under Ethylene Glycols)**

**DIFFUSERS (Steam and Air)**

Dula Manufacturing Co., 351 Atlantic Ave., Brooklyn  
Fumeral Co., Racine, Wisc.  
Hydro-Mist Div., Arnold Laboratories, 1515 W. Glenoaks  
Blvd., Glendale, Calif.

**DILUENTS, INSECTICIDE (see Clays,—also Abrasives  
and Fillers)**

**DINONYL PHENOL**

Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16

**DIP TUBES, AEROSOL (see Aerosol Dip Tubes)**

**DIPHENYL OXIDE (see Aromatic Chemicals)**

**DISH WASHING COMPOUND DISPENSERS**

Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn., 25  
Chem. Service of Baltimore, Howard & West Sts.,  
Baltimore  
Economics Laboratory, Inc., Guardian Bldg., St. Paul  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hunnell Soap Co., 114 W. 2 St., Cincinnati  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Independent Specialties, 152 W. 75th St., Chicago  
J. Chemical Works, 602 W. 37th St., N. Y. 18  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St.  
Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
Mich.

**DISH WASHING COMPOUNDS (see Cleaning  
Compounds, Dry)**

**DISINFECTANTS, CHLORINATED**

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Anatlab Labs., 285 Franklin St., Boston 10  
Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chem. Prods. Co., 9 Calumet St., Newark 5, N. J.  
Blockson Chem. Co., Joliet, Ill.  
Buckingham Wax Co., 51-03 Van Dam St., Long Island  
City, N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Churchill Mfg. Co., Galesburg, Ill.  
Cowles Chem. Co., 7015 Euclid Ave., Cleveland 3  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Guardian Chem. Corp., 10-15 43 Ave., Long Island City,  
N. Y.  
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Phila. 37  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara  
Falls, N. Y.  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Products Co., 932 W. 38th Place, Chicago  
Klenzade Prods., Beloit, Wisc.  
Midland Labs., Dubuque, Iowa  
Monsanto Chemical Co., 1700 E. 2nd St., St. Louis  
National Chemical Laboratories, 825 Lombard St., Phila.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
National Sanitary Prods., 3944 Olive St., St. Louis 8  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
North Coast Soap & Chem. Works, Seattle, Wash.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark,  
N. J.  
Olin-Mathieson Chem. Corp., Baltimore  
Ottawa Chem. Co., 823 Hamilton St., Toledo, O.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Puritan Chem. Co., Atlanta, Ga.  
Rely Chemical Co., Industrial Prods. Div., P. O. Box  
98, New Orleans, La.  
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
H. V. Smith & Co., 1910 University Ave., St. Paul, Minn.  
L. Sonneborn & Sons, 300 4th Ave., N. Y. 10  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chemical Co., Kansas City, Mo.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago 12

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## STANALENE DODECYLBENZENE

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## STANALTERG DH BEADS

A built all-purpose household detergent in dust-free bead form possessing excellent detergency and foaming characteristics. It is supplied in drums for local packaging. Also used as a detergent and cleanser for hospitals, dairies, factory buildings, railroad cars, motor cars, etc.

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Technical and pure Lauryl, Cetyl, Stearyl, and other fatty alcohols used principally in the manufacture of shampoos, textile auxiliary chemicals, detergent additives, quaternary ammonium compounds and cosmetics.

## STANALONIC SA-096

An essentially 100% active non-ionic detergent and emulsifying agent for use in the textile industry. Excellent resistance to acids and alkalis. Used also for emulsifying mineral oils for agricultural uses, for formulating liquid detergents, glass, metal and dairy cleaners.

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A concentrated 80/85% sodium alkyl aryl sulfonate in powder or flake form. An excellent starting point for detergent formulation; little equipment is necessary to blend STANALTERG 80 with Sodium Phosphates, CMC or other "builders" to produce household and industrial detergents.

## CLUE

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Sodium, Triethanolamine and Magnesium Salts of technical and pure lauryl alcohols in powder, liquid or paste form for shampoos, cosmetics, toothpastes, for use in the textile industry and for the formulation of liquid detergents.

## OTHER CHEMICALS

Stanalchem is a competitive source for all detergent raw materials and intermediates including:

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## STANALTERG 40

A 40% active sodium alkyl aryl sulfonate in powder, flake or bead form for use in the Textile Industry as a wetting, penetrating, level-dyeing and dispersing agent. Can advantageously replace many more expensive textile adjuvants. STANALTERG 40 is also used as a "light-duty" household and industrial detergent.

## STANALTERG LD

A liquid detergent for dishwashing and light-duty detergency for delicate garments. It is characterized by quick degreasing of dishes, high foam, gentleness on the hands and pleasant odor. Does not affect colors of delicate garments. Supplied in lined drums for local packaging.

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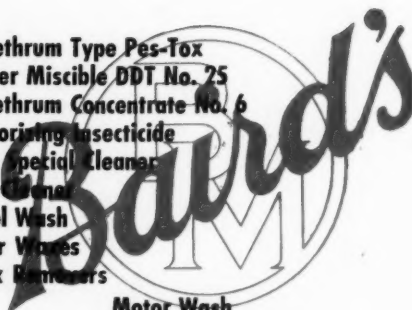
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Wax Removers



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Malathion Emulsifiable  
Dieldrin Concentrates  
Cresylic Acid  
2-4-D Weed Killers  
Insect Repellent  
2-4-5-T Brush Killers

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Victory Chem. Co., 148 Fairmount Ave., Phila.  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Westvaco Chlor-Alkali Div., Food Machy. & Chem.  
Corp., 161 E. 42 St., N. Y. 17  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont, Canada  
Wyandotte Chemicals Corp., J. B. Ford Div.,  
Wyandotte, Mich.

## DISINFECTANTS, COAL TAR and PINE OIL

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Baird & McGuire, Inc., Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Laboratories, 1553 63rd St., Brooklyn 19  
Buckingham Wax Co., Van Dam St. & Borden Ave.,  
L. I. City, N. Y.  
Burkhart-Schier Chem. Co., Chattanooga 2, Tenn.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chemical Compounding Corp., 262 Huron St., Brooklyn  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago  
Creco Co., Inc., Creco Bldg., Long Island City, N. Y.  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Fergusson Laboratories, Drexel Bldg., Phila.  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Frontier Chem. Prods., 119 E. Soper St., St. Louis  
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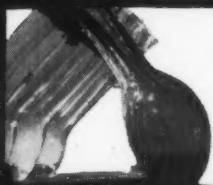
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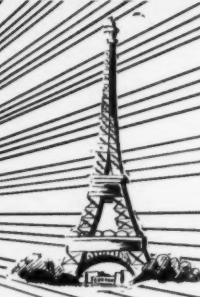


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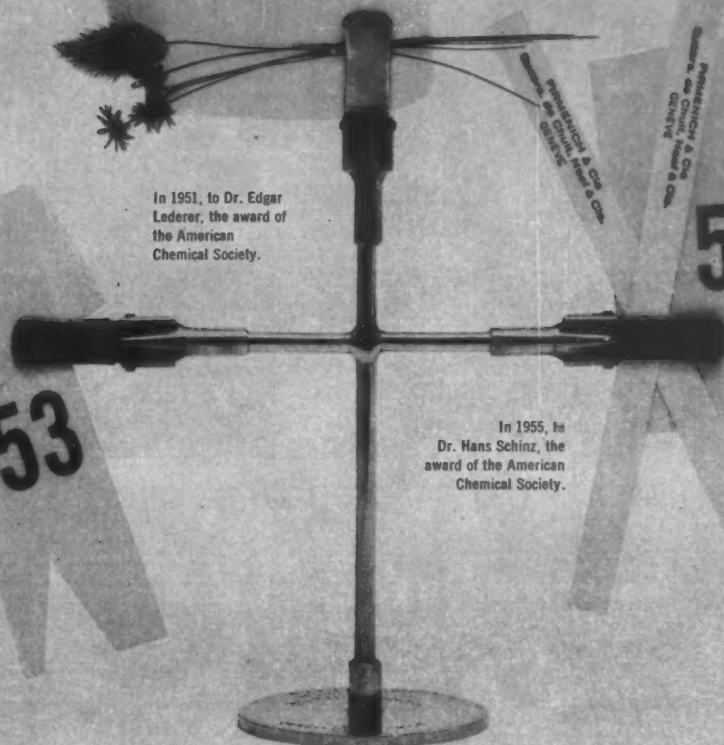
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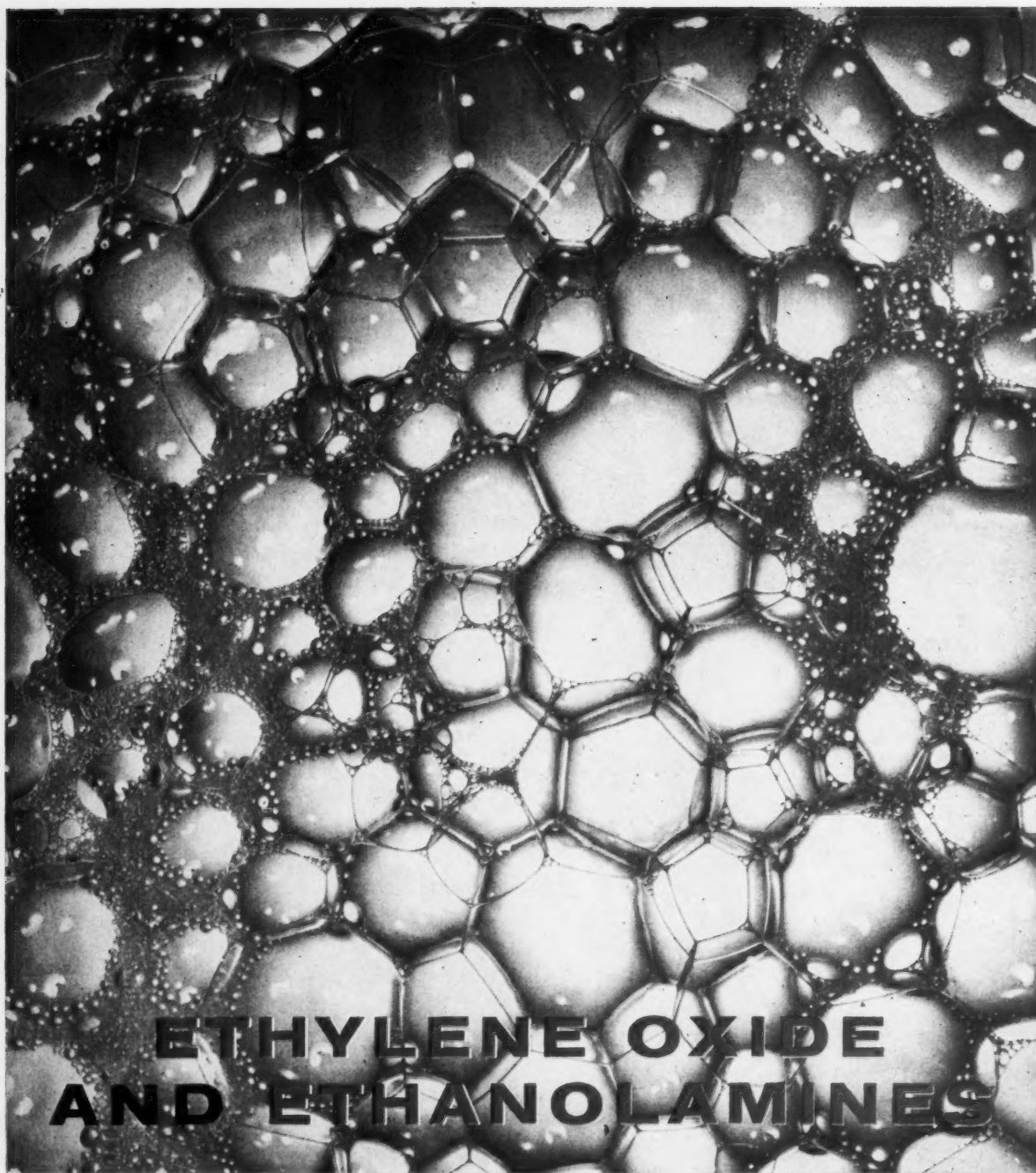


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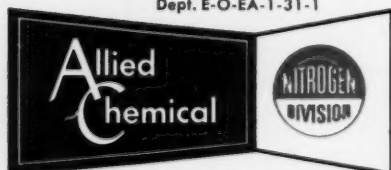
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Texas Solvents & Chemicals Co., 8501 Market St., Houston Tex.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee, Wisc.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## ETHYLENE OXIDE

Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Dow Chemical Co., Midland, Mich.  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3

## EVAPORATORS (Glycerine and Chemical)

Bowen Engineering, Inc., 10 Station Ave., North Branch, N. J.  
Buffalo Fndry. & Mach. Co., Buffalo, N. Y.  
Edge Moor Iron Wks., Edge Moor, Del.  
William Garrigue & Co., 9 S. Clinton St., Chicago  
Houchin Machy. Co., Hawthorne, N. J.  
Lancaster Iron Works, Lancaster, Pa.  
Loeb Equipment & Supply Co., 810 W. Superior St., Chicago (used)  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
Pfandler Co., 1000 West St., Rochester, N. Y.  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
F. J. Stokes Machine Co., Phila., Pa.  
Struthers-Wells Corp., Warren, Pa.  
Swenson Evaporator Co., Harvey, Ill.  
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago  
Zarembo Co., 560 Crosby Bldg., Buffalo, N. Y.

## FAT SPLITTING REAGENTS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Armour & Co., 1355 W. 31 St., Chicago  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Continental Oil Corp., 630 Fifth Ave., N. Y. 20  
Emery Industries, Inc., Carew Tower, Cincinnati  
Indoil Chemical Co., 910 S. Michigan Ave., Chicago 80  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pennsylvania Refining Co., Butler, Pa.  
L. Sonneborn Sons, 300—4th Ave., N. Y.

## FATTY ACIDS

(see also Brokers and Dealers)

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C.  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Archer-Daniels-Midland Co., Minneapolis 2  
Armour Chemical Div., 1355 W. 31 St., Chicago

## 1956 BLUE BOOK



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### CENTURY OLEIC ACID

A grade to match your needs—from regular Red Oil to low titer White Oleic—Century Oleic is the standard of the industry because of its high quality and uniformity.

### CENTURY 1425

#### Distilled Corn Oil Fatty Acid

A relatively low titer material particularly interesting in the manufacture of clear liquid and paste soaps.

### CENTURY 1435

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Where a higher titer, uniform quality fatty acid is desired, Century 1435 finds wide range.

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A medium titer vegetable fatty acid of good stability, used extensively in specialty soaps.

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**for the  
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Coconut	Cottonseed	Peanut	Linseed
Castor	Olive	Rapeseed	Rice Bran
Corn	Soya Bean	Sesame	Babassu
Almond	Apricot Kernel	Palm	Safflower

## ANIMAL OILS

Lard	Neatsfoot	Fish
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## ANIMAL FATS

Tallow	Grease	Oleo Stearine
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## MINERAL OILS

Petrolatum	White Mineral Oils
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## FATTY ACIDS

Vegetable Oil	Animal Oil	Fish Oil
Stearic Acid	Red Oil	White Olein
Cottonseed Oil	Soya Bean Oil	Tall Oil
Coconut Oil	Corn Oil	Palm Oil

## CHEMICALS . . .

Carbonate of Potash	Caustic Soda	Caustic Potash
Snow Flake Crystals	Modified Soda	Soda Ash
Sal Soda	Borax	Boric Acid
Tetrasodium Pyrophosphate	Trisodium Phosphate	
Disodium Phosphate	Metasilicate of Soda	
	Silicate of Soda	
Metasilicate Anhydrous	Orthosilicate of Soda	
Carbon Tetrachloride	*Metso-Detergents	

\*Reg. U. S. Pat. Off., Phila. Quartz Co.

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Lecithin	Textile Sours	Sulfonated Oils
Lanolin	Foaming Agent	Detergents
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 Baker Castor Oil Co., 120 Broadway, N. Y. 5  
 Capital City Prods. Co., Columbus 16, O.  
 Celina Stearic Acid Co., Celina, Ohio  
 Concord Chem. Co., 205 S. 2nd St., Camden 1, N. J.  
 T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
 Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
 Darling & Co., 4201 So. Ashland Ave., Chicago  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 Eastern Industries, Inc., Ridgefield, N. J.  
 Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
 Foremost Food & Chem. Co., El Dorado Div., Oakland, Calif.  
 General Mills, 400 2nd Ave., South, Minneapolis 1  
 A. Gross & Co., 295 Madison Ave., N. Y.  
 Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
 Spencer Kellogg & Sons, Buffalo, N. Y.  
 Lever Bros. Co., 390 Park Ave., N. Y.  
 N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
 National Southern Products, Tuscaloosa, Ala.  
 Pennotex Oil Corp., 29 Broadway, N. Y. 6  
 Procter & Gamble Dist. Co., Cincinnati, O.  
 Robinson Wagner Co., 110 E. 42nd St., N. Y.  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Trendex Div., The Humko Co., P. O. Box 4607, Memphis, Tenn.  
 Union Bag & Paper Corp., 233 Broadway, N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 West Virginia Pulp & Paper Co., 230 Park Ave., N.Y. 17  
 Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanson St., Phila.  
 Woburn Chemical Corp., Harrison, N. J.  
 G. S. Ziegler & Co., 99 Church St., N. Y. 17

## FATTY ACID ESTERS

Antara Chemicals, Div., General Aniline & Film Corp., 435 Hudson St., N. Y. 14

Archer-Daniels-Midland Co., Minneapolis 2  
 Atlas Powder Co., Wilmington, Dela.  
 Baker Castor Oil Co., 120 Broadway, N. Y. 5  
 Carlisle Chem. Wks., Reading, O.  
 Colgate-Palmolive Co., 105 Hudson St., Jersey City, N.J.  
 E. F. Drew & Co., 10 E. 26 St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Emery Industries, Carew Tower, Cincinnati 2  
 Emulsol Chemical Corp., 59 E. Madison St., Chicago 3  
 Foremost Food & Chem. Co., El Dorado Div., Oakland, Calif.  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
 General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
 General Mills, 400 2nd Ave., South, Minneapolis 1  
 Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. 18  
 Glyco Prods. Co., 350 Fifth Ave., N. Y. C.  
 Knapp Prods., Inc., Lodi, N. J.  
 Marchon Prods. Ltd., Whitehaven, Cumberland, England  
 National Southern Products, Tuscaloosa, Ala.  
 Neatsfoot Oil Refineries Corp., E. Ontario and Bath Sts. Phila.  
 Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
 Robinson, Wagner Co., 110 E. 42nd St., N. Y. 17  
 Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey City, N. J.  
 Pennotex Oil Corp., 29 Broadway, N. Y. 6  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Van Dyk & Co., Belleville 9, N. J.  
 West Virginia Pulp & Paper Co., 230 Park Ave., N.Y. 17  
 Woburn Chemical Corp., Kearny, N. J.  
 Jacques Wolfe & Co., 350 Lexington Ave., Passaic, N. J.  
 G. S. Ziegler & Co., 99 Church St., N. Y. 7

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Blaw-Knox Co., Chicago  
 William Garrigue & Co., 9 S. Clinton St., Chicago  
 Alan Porter Lee Associates, 18 South St., Morristown, N. J.  
 Project Construction Corp., 39 Broadway, N. Y. 6  
 Foster D. Snell, 29 W. 15 St., N. Y. 11  
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 Antara Chemicals, Div. General Aniline & Film Corp.,  
 435 Hudson St., N. Y.  
 Archer-Daniels-Midland Co., 2191 W. 110 St., Cleve-  
 land 2  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
 Dehydag Deutsche Hydrierwerke, Henkelstrasse 67  
 Dusseldorf, Germany  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 N. I. Malmstrom & Co., 147 Lombardy St., Bklyn., N. Y.  
 Marchon Prods. Ltd., Whitehaven, Cumberland, England  
 M. Michel & Co., 90 Broad St., N. Y.  
 Robinson Wagner Co., 110 E. 42nd St., N. Y.  
 Stanalchem Inc., 350 Madison Ave., N. Y. 17  
 Stepan Chemical Co., 20 N. Wacker Drive, Chicago  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Woburn Chemical Corp., Harrison, N. J.

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 Exact Weight Scale Co., 944 W. 5th Ave., Columbus, O.  
 J. L. Ferguson Co., Joliet, Ill.  
 B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
 (Bbbs & Bags)  
 Loeb Equipment Supply Co., 810 W. Superior St.,  
 Chicago (used)  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)  
 Perl Machine Mfg. Co., 72 Jay St., Brooklyn 1  
 Pneumatic Scale Corp., North Quincy, Mass.  
 Sprout, Waldron & Co., Muncy, Pa.  
 Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia  
 Stuyvesant Engineering Co., 107 Stuyvesant Ave.,  
 Lyndhurst, N. J.  
 Triangle Package Machinery Co., 6643 W. Diversey  
 Blvd., Chicago  
 Weigh Right Automatic Scale Co., 404 Grant Ave.,  
 Joliet, Ill.

#### FILLING MACHINERY (for Liquids in drums, carboys, large cans, etc.)

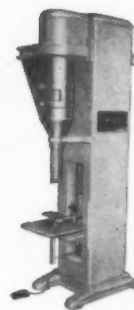
Alsop Engineering Corp., Milldale, Conn.  
 Drum Equipment Corp., 947 Lehigh Ave., Union, N. J.  
 Ertel Engineering Corp., West Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Hope Machine Co., 9400 State Rd., Phila. 14  
 Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4  
 Hornney & Co., 420 Lexington Ave., N. Y.  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 Loeb Equipment Supply Co., 810 W. Superior St.,  
 Chicago (used)  
 M-R-M Co., 191 Berry St., Bklyn.  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)  
 Packer Machinery Corp., 32 Irving Pl., N. Y.  
 Scientific Filter Co., 59 Rose St., N. Y.  
 U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

#### FILLING MACHINERY (for Liquids, in Small Bottles, Cans, Etc.)

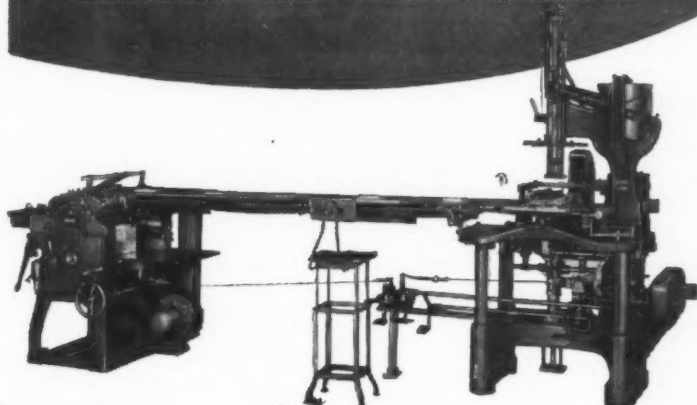
Alsop Engineering Corp., Milldale, Conn.  
 Arencos Machine Co., 25 W. 43rd St., N. Y.  
 F. L. Burt Co., 571 7th St., San Francisco 8  
 Consolidated Packaging Machy. Corp., 1400 West Ave.,  
 Buffalo  
 Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
 Hope Machine Co., 9400 State Rd., Phila.  
 Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4, Pa.  
 Hornney & Co., 420 Lexington Ave., N. Y.  
 Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
 Loeb Equipment Supply Co., 810 W. Superior St.,  
 Chicago (used)  
 G. Diehl Mateer Co., Strafford, Wayne, Pa.  
 M. R. M. Co., 191 Berry St., Bklyn.  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)  
 Packer Machinery Corp., 32 Irving Pl., N. Y.  
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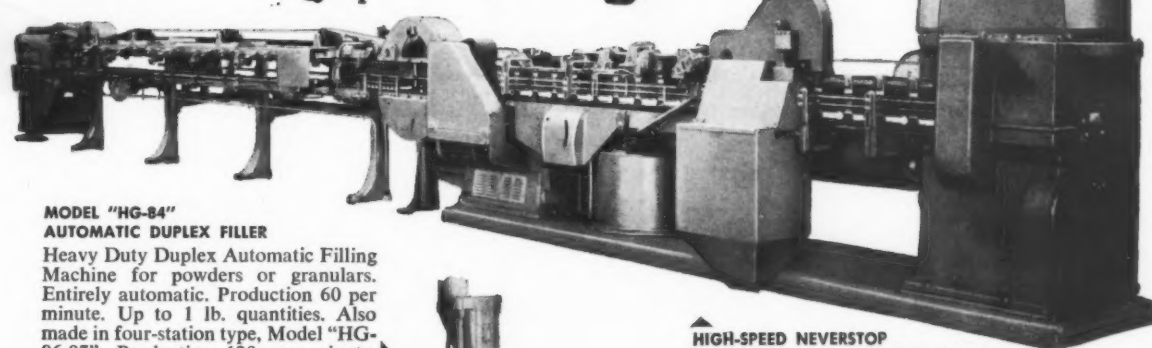


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Newest design. Fully streamlined. Fills by gross weight or by packing or by measurement. Handles powders, granulars or pastes. Various types of containers. ¼ oz. up to 5 lbs. or more. Production 15 to 30 per minute.



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A complete paper box gluing, feeding and wrapping unit. Made in two sizes—Model "B" and Model "H". Completes up to 40 boxes per minute. Only one operator required. Model "B"—maximum: 20" x 15" x 4"; minimum: 6" x 4" x ½". Model "H"—maximum: 15" x 10" x 2¾"; minimum: 4" x 1¾" x ½".

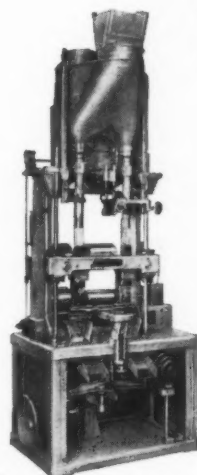


### MODEL "HG-84" AUTOMATIC DUPLEX FILLER

Heavy Duty Duplex Automatic Filling Machine for powders or granulars. Entirely automatic. Production 60 per minute. Up to 1 lb. quantities. Also made in four-station type, Model "HG-86-87". Production 120 per minute.

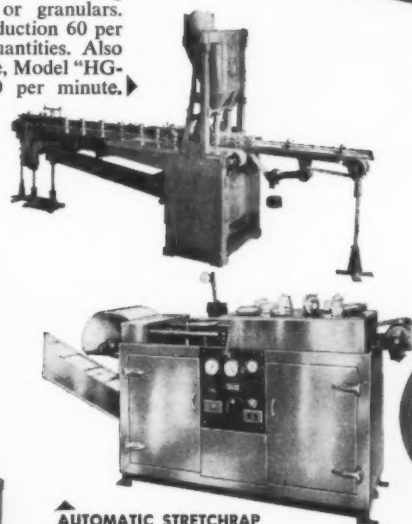
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For free-flowing products. Feeds, fills and seals cartons, both top and bottom, in one continuous operation. Cartons 5½" x 3¼" x 1¾" to 8½" x 6" x 2½". 60 to 200 or more per minute. One operator.



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Equipped with auger feed. Forms, fills and heat-seals the package, taking printed or unprinted web from roll stock. Volume to 56 cubic inches or 1 lb. 50 to 120 packages per minute.



### AUTOMATIC STRETCHRAP PACKAGING MACHINE

For wrapping odd shapes of articles or pieces, smoked meats, sausage, toys, etc. with heat sealing "Pliofilm". One operator required. Production 12 to 15 per minute.

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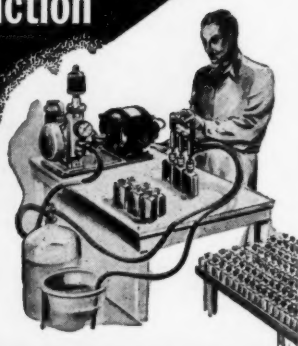


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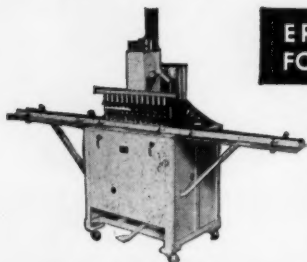
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**Materially lower  
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This Vacuum Bottle Filler belongs in every plant. Fills batch or sample lots of materials at lowest cost; for small operations where, large expensive equipment is not practical. Fully automatic overflow—no drip spouts. Instantaneous flow — won't fill defective or cracked bottle.

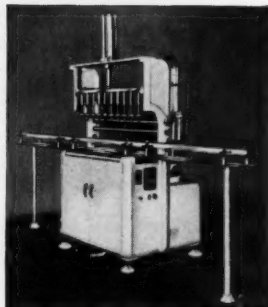


### ERTEL ESA FILLER FOR SMALL BOTTLES

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For speeds up to 40 quarts per minute, this precision Ertel filler has no equal. New type spouts positively prevent drip-page. Available with circulatory passages either bronze, plated, or stainless steel. Adjustments are simple and require but a few seconds time. If you have a filling problem see the Pneumo-Vac — it's designed for low cost operation.



Ask to have an Ertel representative show you why Ertel Fillers are so enthusiastically acclaimed by users in the pharmaceutical, drug, cosmetic, chemical and food industries.

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Triangle Package Machinery Co., 6643 W. Diversey Ave.,  
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U. S. Bottlers Machinery Co., 4019 N. Rockwell St.,  
Chicago

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Hope Machine Co., 9400 State Rd., Phila. 14  
G. Diehl Mateer Co., Strafford, Wayne, Pa.  
Karl Kiefer Machine Co., 919 Martin St., Cincinnati 2  
Loeb Equipment Supply Co., 810 W. Superior St.,  
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Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

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Cass Products Co., 27-31 Mechanic St., Buffalo  
Arthur Colton Co., 3400 E. Lafayette Ave., Detroit  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Haring Equipment Co., 533 Broadway, N. Y. 12  
Karl Kiefer Machine Co., 919 Martin St., Cincinnati  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago (used)  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

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Exact Weight Scale Co., 944 W. 5th Ave., Columbus, O.  
J. L. Ferguson Co., Joliet, Ill.  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago (used)  
Mandel Products, 207 Astor St., Newark, N. J.  
G. Diehl Mateer Co., Strafford, Wayne, Pa.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)  
Packer Machinery Corp., 32 Irving Pl., N. Y.  
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 112 S. Sangamon St., Chicago  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
Sprout, Waldron & Co., Muncy, Pa.  
F. J. Stokes Mach. Co., 5918 Tabor Rd., Philadelphia  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Stuyvesant Engineering Co., Lyndhurst, N. J.  
Triangle Package Machinery Co., 6643 W. Diversey Ave.,  
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U. S. Automatic Box Machy. Co., Boston 31, Mass.  
Weigh Right Automatic Scale Co., 404 Grant Ave.,  
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## FILTER AIDS

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Dicalite Div., 612 S. Flower St., Los Angeles  
Ertel Engineering Corp., West Front St., N. Y.  
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles  
Industrial Chem. Sales Div., West Va. Pulp and Paper  
Co., 230 Park Ave., N. Y.  
Johns-Manville Prods. Corp., 22 East 40th St., N. Y.  
Peerless Clay & Mineral Co., Pueblo, Colo.  
Westvaco Chem. Div., Food Machy. & Chem. Corp.,  
161 E. 42nd St., N. Y. 17  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

## FILTER PRESSES

Alsop Engineering Corp., Milldale, Conn.  
 Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Hercules Filter Corp., 204 21st Ave., Paterson, N. J.  
 F. R. Hormann & Co., 17 Stone St., Newark, N. J.  
 Hornney & Co., 420 Lexington Ave., N. Y.  
 Karl Kiefer Machy Co., 919 Martin St., Cincinnati  
 Loeb Equipment Supply Co., 810 Superior St., Chicago  
 (used)  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)  
 Niagara Filter Corp., East Moline, Ill.  
 Scientific Filter Co., 59 Rose St., N. Y.  
 T. Shriver & Co., Harrison, N. J.  
 Sparkler Mfg. Co., 201 Lake St., Mundelein, Ill.  
 D. R. Sperry & Co., Batavia, Ill.  
 United Filters Corps., Hazelton, Pa.  
 Valley Foundry & Machine Works, Fresno 10, Calif.

## FILTER SHEETS, Asbestos

Alsop Engineering Corp., Milldale, Conn.  
 Ertel Engineering Corp., West Front St., Kingston, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 F. R. Hormann & Co., 17 Stone St., Newark, N. J.  
 Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.

## FILTERS, Clarifying

Alsop Engineering Corp., Milldale, Conn.  
 Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
 Karl Kiefer Machy Co., 919 Martin St., Cincinnati

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 Chemical Service of Baltimore, Howard & West Sts.,  
 Balto. 30  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Diamond Alkali Co., Union Commerce Bldg., Cleveland  
 Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
 Dow Chemical Co., Midland, Mich.  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good Co., 2107 Susquehanna Ave., Phila.  
 R. M. Hollingshead Corp., Camden, N. J.  
 Michigan Chemical Corp., St. Louis, Mich.  
 Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
 Prior Chem. Corp., 420 Lexington Ave., N. Y.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Thompson-Hayward Chem. Co., 2915 Southwest Blvd.,  
 Kansas City 8, Mo.  
 Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
 Uncle Sam Chem. Co., 575 W. 131st St., New York  
 Westvaco Chlor-Alkali Div., Food Mach. & Chem. Corp.  
 161 E. 42nd St., N. Y.

## FIRE EXTINGUISHERS

American La France Foamite Corp., Elmira, N. Y.  
 Ansul Chemical Co., Fire Extinguisher Div., Marinette,  
 Wisc.  
 Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridge-  
 port, Conn.  
 Bridgeport Brass Co., Bridgeport, Conn.  
 C-O-Two Fire Equipment Co., U. S. Hwy. 1, Newark, N. J.  
 H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
 Walter Kidde & Co., Belleville, N. J.  
 Pyrene Mfg. Co., Newark, N. J.  
 Safety Fire Extinguisher Co., 293 7th Ave., N. Y.  
 D. B. Smith & Co., 414 Main St., Utica, N. Y.  
 Stop-Fire, Inc., 125 Ashland Place 1, Brooklyn

## FIRE-PROOFING COMPOUNDS

Antara Chemicals, Div. General Aniline & Film Corp.,  
 435 Hudson St., N. Y. 14  
 Atlantic Refining Co., 260 S. Broad St., Phila.  
 Chem Service of Balto., Howard & West Sts., Balto. 30  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Dover Chemical Co., Dover, O.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Eagle Soap Corp., Huntington, Ind.  
 Essential Chemicals Co., 5906 N. Port Washington Rd.,  
 Milwaukee  
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.

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### FLOOR FINISHES

- ★ **C.P.R. Finish\*** — The newest development in quality floor finishes. Will not discolor or darken with age. Can be used for gym floors or industrial floors, where outstanding wear and chemical resistance is necessary, without sacrificing color and appearance.
- ★ **No-Burn Gym Finish\*** — The outstanding original finish for gym floors. Will not rubber burn — withstands boiling water, resists alkalis, acids, heat and cold.
- ★ **Dri-Fast Seal & Finish\*** — The ideal speed finish for wood, linoleum and concrete floors. NOT A LACQUER. Base tung oil and phenol resins. Dries quickly — pale and long wearing.
- ★ **Terrazzo Finish\*** — Will not discolor or darken terrazzo. Dries quickly — can be buffed for beautiful lustre. Prevents dusting.
- ★ **Felxi-Color Rubberized Color Coat** — For cement, concrete, wood, linoleum or metal. Tenaciously adheres to cement — stubbornly resists moisture.
- ★ **Asphalt Tile Finish\*** — Renews and refinishes asphalt, rubber, linoleum and mastic floors. Seals and finishes new or old floors with one coat.

### FLOOR SEALERS

- ★ **C.P.R. Sealer\*** — Outstanding development in floor sealers. Penetrates without usual discoloration — will not darken with age. May be used under heaviest traffic conditions. Highly water, wear and chemically resistant.
- ★ **Stay Light Sealer** — A light color, fast drying, penetrating sealer especially recommended for industrial application. May be used for very lightest color where speed finishing is necessary.
- ★ **Fed-Co\*** — Highest quality penetrating wood sealer. Exceptional hardness and wearing qualities — easily applied with mop or spray.
- ★ **Penetroil\*** — Very pale in color. Approved by Maple Flooring Manufacturers Association. Properly fills the pores with a durable elastic film — water resistant.
- ★ **Quick-Prime\*** — Fast drying oleo resinous type primer. Dries in less than two hours. Ideal for large industrial plants, mills, bakeries and schools where speed finishing is a must.
- ★ **Flex Cure Seal** — Rubber base penetrating sealer for use on new concrete floors to prevent dusting, staining and discoloration. Requires no etching — dries in less than an hour — one coat application.
- ★ **Terrazzo Sealer\*** — Water white — will not discolor terrazzo. Prevents dusting, chipping and disintegration. Resists water, soap, acid and alkali.
- ★ **Mastic (Asphalt)\* Tile Sealer\*** — Seals tile against dust, dirt, grease, etc. Dries in less than an hour — will not soften tile or run the colors. Beautifies and highlights original colors.
- ★ **Ready Mixed Color Concentrates** — Beauty and durability for cement, concrete, wood and metal. Applied with brush or lamb's wool applicator. Resists oils, gasoline, alcohol, mild acids and alkalis.

★ **MAPLE FLOOR MANUFACTURERS ASSOCIATION APPROVED.**

### WAXES

- ★ **Super Lightning Lustre\*** — Self-polishing, high quality, extra heavy duty wax. Pure Carnauba Wax-Base. Light color—highly water resistant — longer wear and buffability.
- ★ **Super Lightning Lustre-With Ludox** — Same base as the above wax with Ludox added to give maximum anti-slip protection without sacrifice of gloss, durability or other fine performance features.
- ★ **Slo-Tred\*** — Self-polishing. Tested and approved by Underwriters' Laboratories, Inc., as an anti-slip material. Made with Carnauba Wax — high gloss.
- ★ **L-1290 Concentrate** — 25% Solids — Extremely stable wax concentration for reduction to lower solid content. Retains high gloss—excellent water resistance — anti-slip and good durability at any lower solid content.
- ★ **Liquid Oil Base Wax** — Buffs and polishes beautifully — easily applied with a mop or applicator. Super quality.
- ★ **Var-Lin** — Carnauba Base liquid buffing wax. White, will not discolor linoleum or wood floors. Makes excellent finish for sealed concrete floors. Highest quality obtainable.

## **F**ederal VARNISH DIVISION

ASHLAND AVE. AT 29th ST.  
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### SPECIAL FLOOR TREATMENTS

**Gloss Grip\*** — A new waxless, water-soluble synthetic floor sealer and finish for use on all types of floors. Particularly recommended for Asphalt Tile, Vinyl and Rubber Tile floors. High gloss — no wax — safety for all floors. Does not contain Ludox.

**Sila-Kone-Gloss\*** — New type of floor treatment containing silicone. Requires no polishing. Economical, safe floor maintenance.

**Sil-Lox\*** — A wax replacement finish containing silicone and Ludox for positive anti-slip. No polishing required. Ideal for hard surface floors. Easy to remove.

*\*Listed and Approved by Underwriters Laboratories as an Anti-Slip Material.*

### SPECIAL CLEANING, MAINTENANCE AND FINISHING MATERIALS . . .

- ★ **Con-Treat** — Combination cleaner and etcher for concrete to be applied before sealer.
- ★ **Dust-A-Sheen** — Emulsion wax base dust mop treatment.
- ★ **Magic Floor Spray** — For treating dust mops, cleaning and polishing of hard floors.
- ★ **Gym Finish Cleaner and Polish** — Solvent cleaner for removal of rubber marks and maintenance of gymnasium floors.
- ★ **No. 70 Restorer\*** — Wax base, waterless cleaner and finish for hard floors.
- ★ **No-Burn Varnish Remover** — Non-inflammable remover for paints, varnishes, sealers and finishes. Heavy bodied.
- ★ **Strip-Fast Stripper** — Non-inflammable stripper for paints, varnishes, sealers and finishes. Especially for floors.
- ★ **Triple Strength Varnish Remover** — Semi-paste, inflammable remover. Quick acting. Economical.
- ★ **Lightning Lustre Wax Base Soap** — Combines cleaning and waxing action for all types of floors.
- ★ **Asphalt Tile Cleaner and Conditioner** — Detergent type cleaner for quick and thorough cleaning of all floors. Safe — economical.
- ★ **Concentrated Cleaner and Conditioner** — More highly concentrated Asphalt Tile Cleaner and Conditioner.
- ★ **Kwick Kleen-Double Concentrate Cleaner** — Neutral cleaner in double concentrate form — synthetic detergent with activated action for removal of soap scum, oil, dirt and grease. Safe for all floors.
- ★ **Wax Kutter** — Powerful — Wax Dissolving Action — Will emulsify and soften old wax films, dirt, oil, etc. — Use on any floor.
- ★ **Complete Line Sani-Surf Swimming Pool Finishes** — Write for color chart and bulletin.
- ★ **Peerless Paint** for private label — Interior and exterior paints — complete and profitable.
- ★ **Kleen Sheen** — Patented paint for interior surfaces — dirt repellent — ideal for hospitals, food processing plants and hard-to-keep-clean walls and ceilings.
- ★ **Special Maintenance Products** — We will be glad to give personal attention to special floor problems. Your inquiries are invited.





## FIRE PROOFING COMPOUNDS (Contd.)

Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
Glyco Prods. Co., 350 5th Ave., N. Y. 1  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.  
Monsanto Chemicals Co., 124 South Second St., St. Louis  
Niacet Chemicals Corp., Niagara Falls, N. Y.  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2 N. J.  
George Stearns Chem. Corp., 4200 E. Mendota St., Madison, Wisc.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

## FIRE PUMPS (see listings under Fire Extinguishers)

## FISH OILS

(see also *Brokers and Dealers*)

Archer-Daniels-Midland Co., 2191 W. 110 St., Cleveland 2  
Armour & Co., 1355 31st St., Chicago  
Atlas Refinery, Lockwood St., Newark, N. J.  
E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17  
Murray Oil Products Co., 21 West St., N. Y.  
Pacific Vegetable Oil Co., 3125 E. 26 St., Los Angeles  
J. H. Redding, Inc., 17 Battery Place, N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Swan Finch Oil Corp., 205 E. 42nd St., N. Y.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Welch, Holme & Clark Co., 439 West St., N. Y.

## FISH OIL SOAPS

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
R. M. Hollingshead Corp., Camden, N. J.  
Murro Chemical Co., Portsmouth, Va.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
North Coast Chem. & Soap Works, Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Schaeffer Mfg. Co., 102 Barton St., St. Louis  
Silmo Chemical Co., Vineland, N. J.  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## FLOATING SOAPS

Armour & Co., 1355 W. 31st St., Chicago  
Beach Soap Co., Lawrence, Mass.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
J. Levenson & Sons, Camden, N. J.  
Haskins Bros. & Co., Omaha  
Hewitt Soap Co., Dayton, Ohio  
Lever Bros. Co., 390 Park Ave., N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Mem Co., 67 Irving Pl., N. Y. 3  
Procter & Gamble Distributing Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## FLOOR FINISHES (Non-Wax)

Ampion Corp., 4-88 47th Ave., Long Island City, N. Y.  
Baird & McGuire, Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Briggs Maroney Co., 85 Paris St., Everett, Mass.  
Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.  
Butcher Polish Co., 183 Commercial St., Malden, Mass.

Candy & Co., 2515 W. 35th St., Chicago  
Chem Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Davies-Young Soap Co., Dayton, O.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee  
Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
Franklin Research Co., 5134 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good Co., 2107 Susquehanna Ave., Phila. 25  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Magee Chem. Co., 325 Main St., Bensenville, Ill.  
Masury Young Co., 76 Roland St., Boston 29  
Midland Labs., Dubuque, Iowa  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Oil Specialties & Refining Co., 18 Bridge St., Brooklyn, N. Y.  
Old Empire, Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Simoniz Co., 2100 Indiana Ave., Chicago 16  
L. Sonneborn Sons, Inc., 300 4th Ave., N. Y. 10  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
Vestal, Inc., 4963 Manchester St., St. Louis 10  
Victory Chem. Co., 148 Fairmount Ave., Phila.  
T. F. Washburn Co., 2244 Elston Ave., Chicago  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

## FLOOR MACHINES

Advance Floor Machine Co., 4102 N. Wash. Ave., Minneapolis  
Amer. Floor Surfacing Mach. Co., 561 S. St. Clair St., Toledo, O.  
Atlas Floor Surfacing Machy., 248 E. 34th St., N. Y. 16  
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40  
Clarke Sanding Machine Co., Muskegon, Mich.  
Columbus-Dixon, Inc., 21 West Street, N. Y.  
Finnell System, Inc., Elkhart, Ind.  
General Floorcraft Corp., 421 Hudson St., N. Y.  
Hild Floor Machine Co., 740 W. Washington St., Chicago  
Holt Manufacturing Co., 699 20 St., Oakland, Calif.  
Kent Co., 426 Canal St., Rome, N. Y.  
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago  
Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren St., Chicago  
Multi-Clean Prods., 2277 Ford Pkway., St. Paul  
Ponsell Floor Machine Co., 220 W. 19th St., N. Y.  
Premier Co., 755 Woodlawn Ave., St. Paul, Minn.  
Pullman Vacuum Cleaner Corp., 25 Buick St., Boston 15  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
United Floor Machine Co., 7715 S. Chicago Ave., Chicago

## FLOOR MATS (see Mats)

## FLOOR SCRAPERS and SANDERS

American Floor Surfacing Machine Co., Toledo, O.  
Atlas Floor Surfacing Machy., 248 E. 34 St., N. Y. 16  
Clarke Sanding Machine Co., Muskegon, Mich.  
A. F. Dormeyer Mfg. Co., 4316 N. Kilpat'k St., Chicago  
Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren St., Chicago  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
White Mop Wringer Co., Fultonville, N. Y.

## FLOOR SCRUB SOAPS (see also Potash Soaps)

Aid Soap Mfg. Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.

## FLOOR SCRUB SOAPS (Cont'd.)

Armour Industrial Soap Dept., Chicago 9  
 Baird & McGuire, Inc., Holbrook, Mass.  
 Banner Chem. Prod. Co., 9 Calumet St., Newark, N. J.  
 Baum's Castorine Co., Rome, N. Y.  
 Betco Corp., 830 Elysian Ave., Toledo, O.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.  
 Butcher Polish Co., 183 Commercial St., Malden, Mass.  
 Candy & Co., 2515 W. 35th St., Chicago  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Davies-Young Soap Co., Dayton, O.  
 E. F. Drew & Co., 10 E. 26th St., N. Y. 10  
 Eagle Soap Corp., Huntington, Ind.  
 Empire Chem. Prods. Co., 10 Long Worth St., Newark, N. J.  
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
 Finnell System, Inc., 500 East St., Elkhart, Ind.  
 Franklin Research Co., 5134 Lancaster Ave., Phila.  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 Hewitt Soap Co., Dayton, O.  
 Higley Chemical Co., Dubuque, Iowa  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hunnewell Soap Co., 114 W. 2nd St., Cincinnati 2  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Klux Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
 Kranich Soap Co., 60 Richards St., Brooklyn  
 Magee Chem. Co., 325 W. Main St., Bensenville, Ill.  
 Murro Chemical Co., Portsmouth, Va.  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
 Midland Labs., Dubuque, Iowa  
 National Chemical Laboratories, 825 Lombard St., Phila.

National Milling & Chemical Co., 4601 Nixon St., Phila. 27  
 Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
 N. Y. Soap Co., 258 Third St., Brooklyn  
 New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Oil Kraft, Inc., 3330 Beekman St., Cincinnati 23  
 Oil Specialties & Ref. Co., 18 Bridge St., Bklyn.  
 Original Bradford Soap Wks., West Warwick, R. I.  
 Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.  
 Piatt & Smillie Chemicals, 2322 Olive St., St. Louis 3  
 Procter & Gamble Dist. Co., Cincinnati  
 Puritan Chem. Co., Atlanta, Ga.  
 Reilly Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 Savin Products Co., 1221 Dorchester Ave., Boston 25  
 Schaeffer Mfg. Co., 102 Barton St., St. Louis  
 I. Schneid, Inc., 916 Ashby St., N.W., Atlanta, Ga.  
 Science Industries, 1509 N. Broadway, St. Louis  
 E. B. Snyder Labs., 2137 E. Harold St., Phila.  
 Standard Soap Co., Div., Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Swift & Co., Chicago  
 Theobald Industries, P. O. Box 72, Harrison, N. J.  
 Trio Chem. Wks., 341 Scholes St., Bklyn. 6  
 Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
 Twi-Laq Chemical Co., 25 N. Portland Ave., Bklyn.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
 U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
 James Varley & Sons, 1200 Switzer Ave., St. Louis  
 Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
 Vestal, Inc., 4963 Manchester St., St. Louis 10  
 T. F. Washburn Co., 2244 Elston Ave., Chicago  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
 Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27



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 Wax Stripper  
 Synthetic Cleaner Concentrate  
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- De-Greasing Compounds
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- U.S.P. Surgical
- Green Soaps

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Antiseptic Liquid Soap  
Containing Hexachlorophene

HAND LOTION

Containing Hexachlorophene

## FLOOR SCRUB SOAPS (Contd.)

Allen B. Wrisley Co., 6801 W. 65th St., Chicago  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## FLOOR SEALERS (see Sealers)

## FLOOR WAX APPLICATORS (see Applicators)

## FLOOR WAXES

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Banner Chemical Products Co., 9 Calumet St., Newark 5, N. J.  
Baird & McGuire, Inc., Holbrook, Mass.  
Betco Corp., 830 Elysian Ave., Toledo 7  
Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City, N. Y.  
Butcher Polish Co., 183 Commercial St., Malden, Mass.  
Candy & Co., 2515 W. 35th St., Chicago  
Cato Chemical Co., 116 S. York St., Elmhurst, Ill.  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago  
Crystal Soap & Chemical Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton, O.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eagle Soap Corp., Huntington, Ind.  
Empire Chemical Prods. Co., 10 Longworth St., Newark, N. J.  
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee  
Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
Finnell System, Inc., 500 East St., Elkhart, Ind.  
Franklin Research Co., 5134 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good, Inc., 2107 Susquehanna Ave., Phila.

Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.

Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.

Harley Soap Co., Pierce & Orthodox Sts., Phila.  
Higley Chemical Co., Dubuque, Iowa

R. M. Hollingshead Corp., Camden, N. J.

Hunt Mfg. Co., Lisbon Rd., Cleveland

Hysan Prods. Co., 932 W. 38th Place, Chicago

S. C. Johnson & Son, 1525 Howe St., Racine, Wisc.

Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.

Knoxall Corp., 1005 E. Sumner Ave., Indianapolis

Magee Chem. Co., 325 W. Main St., Bensenville, Ill.

National Chem. Laboratories, 825 Lombard St., Phila.

Majestic Wax Co., 2139 Blake St., Denver, Colo.

Midland Labs., Dubuque, Iowa

M. & H. Laboratories, 2703 Archer Ave., Chicago

Masury Young Co., 76 Roland St., Boston 29

National Laboratories, Inc., 4934 Lewis Ave., Toledo O.

New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.

Oil Specialties & Refining Co., 18 Bridge St., Bklyn.

Oil-Kraft, Inc., 3330 Beekman St., Cincinnati

J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.

Peck's Prods., 610 E. Clarence Ave., St. Louis

Pennsylvania Refining Co., Butler, Pa.

Perrow Chemical Co., Hurt, Va.

Piatt & Smillie Chems., 2322 Olive., St. Louis 3

Puritan Chem. Co., Atlanta, Ga.

Reilly Chem. Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.

Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.

Royce Chem. Co., Carlton Hill, N. J.

Sander Chem. Co., 2205 N. American St., Phila. 33

Schaeffer Mfg. Co., 102 Barton St., St. Louis

I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.

Science Industries, 1509 N. Broadway, St. Louis

Simoniz Co., 2100 Indiana Ave., Chicago 16

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### FOR PRIVATE BRAND RESALE



#### SELF POLISHING WAXES

Candy's Supreme (standard)  
Bright Beauty (standard)  
Candy's Supreme Special WR

#### SUPER CAND-DOX®

CAND-DOX #CS  
CAND-DOX #BB

Six floor waxes that are all-around top quality for any given traffic condition. Each imparts the finest protection and beauty to floors for which they are best suited.

#### Bright Beauty WAX REMOVER & All-Purpose SURFACE CLEANER

Properly used it will remove water-emulsion wax from any floor without harmful effects to floor or floor coloring. It is the perfect floor maintenance wax remover and all purpose surface cleaner. Pleasant odor, crystal clear and thorough cleaning action with all types of equipment. Is unaffected by hard freezing. Furnished ready for resale or in concentrated form for those who want to compound their own cleaner . . . nothing but water to buy or mix in.

#### Bright Beauty CREAM FURNITURE POLISH

A cream furniture polish that spreads easily, polishes without excessive effort and imparts a deep impressive lustre. Too, it permits repeated repolishing with a dry cloth saving reapplication time and again; truly a very economical polish of very highest quality.

#### Bright Beauty PASTE WAX

A paste wax that is properly blended and refined from excellent quality solids and solvents that produce the best drying time and thorough evaporation. A wax that is easy to handle, having "creamy" consistency and stability throughout its stocking and usage period.

#### Bright Beauty LIQUID (spirit) PREPARED WAXES

Complete line of spirit dissolved waxes that meet a wide variety of demands for durability, color and types of usages. Each its own "Dry Cleaner," they keep a surface waxed with a superb protective coating necessary to many difficult surfaces such as certain floors (where adaptable), bars, wallpaper, etc.

#### Bright Beauty GLASS POLISH & CLEANER and SILVER POLISH

As a Glass Cleaner (pink color) it applies evenly with little effort, wipes off easily with negligible "powdering" and produces an undeniable "feel" of cleanliness to glass that is actually true in fact. Different in color only as Silver polish, it imparts a highly desirable lustre to all silver without abrasion and can even correct the abuses of scratchy, "quick-polish" inferior products.

#### Bright Beauty DANCE FLOOR WAX

Basic advantages are freedom from "balling up," thus does not gather dirt and impregnate the floor with hard spots difficult to remove...also is free from dusty effects. Adds the protective quality to expensive ballroom floors that means more "floor-years" to users everywhere.

#### Bright Beauty Heavy Duty PASTE CLEANER

Really cleans and scours more effectively and quicker than most scouring powders. Depending on application, it can clean to perfection even painted walls to provide a suitable repainting surface. 100% active, free from excessive abrasive quality, it frees almost every surface from all forms of foreign matter to perfection.

An honest appraisal of floor wax products as we see it is offered to guide wax buyers who want the best quality money can buy...

#### 1. BEAUTY AND DURABILITY

should be considered together. Initial appearance is important, but for a waxed surface to remain beautiful it must be durable. Durability depends not only on resistance to the abrasion of traffic, but even more so on resistance to the collection of dirt and to discoloring traffic marks. Durability is really measured by how long the waxed surface maintains a nice appearance before the necessity of complete removal and re-waxing.

#### 2. ANTI SLIP

qualities are necessary in a good wax as a matter of safety underfoot. This important quality does not necessarily require the sacrifice of beauty and protection which are the foremost original reasons for the use of a wax. Look for the proper balance—a wax film which is not excessively slippery yet which is not tacky and does not excessively collect dirt.

#### 3. WATER RESISTANCE

is important, particularly when considering the possibility of wet traffic and the necessity for frequent damp mopping for the purpose of removing surface dirt. Overdoing this quality means greater difficulty in applying multiple coats of wax and may seriously increase the difficulty in removal when complete cleaning and re-waxing is necessary. Water resistance is important, but so is the quality of removability.

#### 4. SOLID CONTENT

when expressed in percentage is not nearly as important as the quality of the solid content. When considering good quality, 12% of solids answers most needs for good planned maintenance programs. Two applications of 12% will give better results than one of 18%. However, the more concentrated material is useful for some programs of maintenance and particularly on "washed-out" floors, etc. Over-waxing should be avoided so that periodic complete removal will not be too difficult.

#### 5. CARNAUBA WAX

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Tesco Chemicals, Inc., Atlanta 5, Ga.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Twi-Laq Chemical Co., 25 N. Portland Ave., Brooklyn  
Twin City Shellac Co., 340 Flushing Ave., Brooklyn  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sara Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
Vestal, Inc., 4963 Manchester St., St. Louis 10  
T. F. Washburn Co., 2244 Elston Ave., Chicago  
Wilco Co., 4425 Bandinni Blvd., Los Angeles  
Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## FLOOR WAXES, Germicidal

Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.  
Trio Chemical Works, Inc., 341 Scholes St., Brooklyn

## FLOOR WAXES, Insecticidal

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Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore  
Franklin Research Co., 5124 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila. 25  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.

## FLUORIDES

(see also Dealers)

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American Fluoride Corp., 151 W. 19th St., N. Y.  
Blockson Chemical Co., Joliet, Ill.  
California Spray-Chemical Corp., Richmond, Calif.  
Dow Chem. Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 97th St., Cleveland  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Merck & Co., Rahway, N. J.  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Pfaltz & Bauer, 350 Fifth Ave., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Henry Sundheimer, Inc., 103 Park Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

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Tanglefoot Co., 314 Straight Ave., S.W., Grand Rapids, Mich.  
R. E. Tongue & Bro., Alleghany and Amber Sts., Phila.

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Kaiser Aluminum & Chem. Sales, Oakland, Calif.  
Republic Foil & Metal Mills, Danbury, Conn.  
Reynolds Metals Co., Louisville, Ky.  
Stranahan Foil Co., So. Hackensack, N. J.

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Alufoil Prods. Co., 15 Ferry St., New York  
American Coating Mills Div., Robert Gair Co., 228 N.  
LaSalle St., Chicago  
Fisher's Foils Ltd., Wembley, Middlesex, England  
Lachman-Novasel Paper Corp., 109 Greene St., N. Y.  
Marathon Corp., Menasha, Wisc.  
Milprint, Inc., Milwaukee 1, Wisc.  
Reynolds Metals Co., Louisville, Ky.  
Western Foil Co., 3010 38 Ave., Seattle, Wash.  
Crown Zellerbach Corp., San Leandro, Calif.

## FOOT BATHS (Rubber)

Stalwart Rubber Co., Bedford, O.  
U. S. Rubber Co., Market & South Sts., Passaic, N. J.

## FORMALDEHYDE

(see also *Brokers and Dealers*)

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Celanese Corp., 180 Madison Ave., N. Y. 16  
Cliffs-Dow Chem. Co., Marquette, Mich.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector  
St., N. Y. 16  
Heyden Chem. Co., 342 Madison Ave., N. Y. 17  
Mallinckrodt Chemical Work, St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector  
St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chemicals & Dye Corp., 61  
Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.

## FORMULATIONS, Private Brand (see listings under individual headings)

## FRAMES (Soap)

Houchin Machinery Co., Hawthorne, N. J.  
Littleford Bros., 451 E. Pearl St., Cincinnati  
Loeb Equipment Supply Co., 810 Superior St., Chicago  
(used)  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
Italy  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago

## "FREON" (Fluorinated Hydrocarbon Propellant)

Kinetic Chemical Div., E. I. du Pont de Nemours & Co.,  
Wilmington

## FULLERS EARTH

Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co.,  
230 Park Ave., N. Y.  
Robeco Chemicals, Inc., 23 E. 26 St., N. Y. 10  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.  
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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles, Calif.  
Calif. Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y. 7  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber Commerce Bldg., Pittsburgh 19  
Larvacide Products Co., 117 Liberty St., N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Olin Mathieson Chem. Corp., Baltimore 3  
Monsanto Chem. Co., 1700 S. 2 St., St. Louis  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Philadelphia  
Shell Chem. Corp., 50 W. 50th St., N. Y.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

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Jones & Laughlin Steel Corp., Pittsburgh 30  
F. H. Lawson Co., 852 Evans St., Cincinnati  
W. J. McElmoyl Co., Groveville, N. J.  
Rochester Can Co., 88 Greenleaf St., Rochester, N. Y.  
Shore-Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles 23

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Davis Emergency Equip. Co., 43 Halleck St., Newark, New Jersey  
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Dow Chem. Co., Midland, Mich.  
Olin Mathieson Chem. Corp., Baltimore 3  
Fleetwood Prods. Co., 509 5th Ave., N. Y.  
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Monsanto Chem. Co., St. Louis 4  
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Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Davies-Young Soap Co., Dayton 1, O.  
Eagle Soap Corp., Huntington, Ind.  
Essential Chems. Co., 5906 N. Port Washington Rd.,  
Milwaukee  
Franklin Research Co., 5134 Lancaster Ave., Phila. 31  
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Science Industries, 1509 N. Broadway, St. Louis  
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E. B. Snyder Labs., 2137 E. Harold St., Phila.  
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Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
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Harchem Div., Wallace & Tiernan, Inc., Box 178,  
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Lever Bros. Co., 390 Park Ave., N. Y.  
Los Angeles Soap Co., Los Angeles, Calif.  
Procter & Gamble Distributing Co., Cincinnati  
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Foremost Food & Chem. Co., El Dorado Div., Oakland,  
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Emery Industries, Inc., Carew Tower, Cincinnati  
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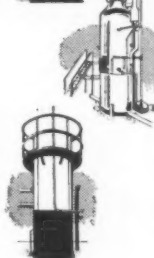
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Columbia Chemical Co., 154 E. Erie St., Chicago 11  
Connecticut Chemical Research Corp., Bridgeport 5, Conn.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Continental Filling Corp., 123 N. Hazel St., Danville, Ill.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Place, Chicago  
Science Industries, 1509 N. Broadway, St. Louis  
Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Williams Chem. Co., 487 Broadway, N. Y. 13

## GLYCOLS

Air Reduction Chem., 60 E. 42 St., N. Y. 17  
Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo, N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
Carlisle Chem. Wks., 510 Reading Rd., Reading, O.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton, Louisville, Ky.  
Dow Chemical Co., Midland, Mich.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Glyco Products Co., 350 5th Ave., N. Y.  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis, Ind.  
Jefferson Chemical Co., 260 Madison Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland  
Olin Mathieson Chem. Corp., Baltimore 3  
Shell Chemical Corp., 50 W. 50th St., N. Y.  
Southern Solvents & Chemicals Co., 1354 Jefferson Highway, New Orleans  
Texas Solvents & Chemicals Co., 8501 Market St., Houston, Tex.  
Van Dyk & Co., 11 Williams St., Belleville, N. J.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee, Wisc.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## GOGGLES (see Gas Masks, etc.)

## GRANULATED SOAPS (see list under Laundry Soaps; Chip Soap)

## GREASE ABSORBENTS (for floors, etc.)

Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Chemical Service Co. of Baltimore, Howard & West Sts., Balto.  
Dri-Rite Co., 100 W. Chicago Ave., Chicago 10  
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee

Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Pl., Chicago 9  
Johns-Manville Prods. Corp., 22 E. 40 St., N. Y.  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
Oil-Dri Corp., 520 N. Michigan Ave., Chicago 11  
Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago 10  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
Waverly Petroleum Prods. Co., 1724 Chestnut St., Philadelphia  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## GREASES (see Tallow)

## GREEN SOAP (see Potash Soap)

## GRINDING MACHINERY (for milling, pulverizing, etc.)

Abbe Engineering Co., Little Falls, N. J.  
American Pulverizer Co., 18th & Austin Sts., St. Louis  
J. H. Day Co., Harrison Ave. & Bogen St., Cincinnati  
Gruendler Patent Crusher & Pulverizer Co., 900 N. First St., St. Louis  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
Houchin Machy. Co., Hawthorne, N. J.  
Kent Machine Works, 39 Gold St., Brooklyn  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (Used)  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Poulsen Co., 5957 W. 3rd St., Los Angeles 6  
Pulverizing Machinery Co., Chatham Rd., Summit, N. J.  
Rapids Machinery Co., Marion, Iowa  
Raymond Pulverizing Div., 1314 N. Branch St., Chgo.  
Chas. Ross & Sons, 148 Classon Ave., Brooklyn  
Sprout Waldron & Co., Muncy, Pa.  
Sturtevant Mill Co., Dorchester, Boston 22  
Troy Engine & Mach. Co., Troy, Pa.  
U. S. Stoneware Co., Akron 9, O.  
Williams Patent Crusher & Pulverizer Co., 2700 North Ninth St., St. Louis

## GUMS (oil, spirit soluble; varnish gums) Copal, Congo, Manila, Dammar, etc.)

Archer-Daniels-Midland Co., Minneapolis 2  
Wm. Diehl & Co., 336 42nd St., N. Y. 18  
Gillespie-Rogers-Pyatt Co., 75 West St., N. Y. 16  
O. G. Innes Corp., 82 Wall St., N. Y. 5  
Meer Corp., 318 W. 46th St., N. Y. 36  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Thurston & Braidich, 286 Spring St., N. Y. 13  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Wm. H. Scheel, Inc., 38 Franklin St., Bklyn 22

## GUMS (Water soluble) Arabic, Karaya, Tragacanth, etc.

Dodwell & Co., 120 Wall St., N. Y. 5  
Paul A. Dunkel & Co., 26 Journal Sq., Jersey City, N. J.  
B. F. Goodrich Chem. Co., Cleveland 15  
Hercules Powder Co., 961 Market St., Wilmington  
S. B. Penick & Co., 50 Church St., N. Y. 7  
Meer Corp., 318 W. 46th St., N. Y. 36  
Orbis Products Corp., 601 W. 26th St., N. Y. 1  
F. H. Paul & Stein Bros., Inc., 235 Fifth Ave., N. Y.  
Seaplant Chem. Corp., 63 David St., New Bedford, Mass.  
Stein, Hall & Co., 285 Madison Ave., N. Y.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
Thurston & Braidich, 286 Spring St., N. Y. 13  
Walter H. Jelly & Co., 420 N. Western Ave., Chicago 12  
Tragacanth Importing Corp., 160 Water St., N. Y. 38  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.



#### GYM-FINISH FLOOR SEAL (see Sealers, Floor)

#### HAND CLEANERS (Powdered, Waterless, etc.)

Aid Soap Mfg. Co., Rochester, Pa.  
Amaza Laboratories, Macedonia, O.  
Analab Labs., 285 Franklin St., Boston 10  
Banner Chemical Prods. Co., 9 Calumet St., Newark 5, N. J.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Davies-Young Soap Co., Dayton 1, O.  
Essential Chems. Co., 5906 N. Port Washington Ave., Milwaukee  
Fiber Chem. Corp., Matawan, N. J.  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Frontier Chem. Prods. Co., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore 3  
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 923 W. 38th Pl., Chicago  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
Kutol Products Co., 2817 Highland Ave., Cincinnati  
R. G. Liner Co., Canton, N. C.  
M & H Laboratories, 2705 Archer Ave., Chicago 8  
Mione Manufacturing Co., Collingdale, Pa.  
Murro Chemical Co., Portsmouth, Va.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Stokie, Ill.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15  
Sanders Chem. Co., 2205 N. American St., Phila. 33  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25  
Sugar Beet Prods. Co., Saginaw, Mich.  
Surety Laboratories, 3946 Olive St., St. Louis 8  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chemical Wks., 341 Scholes St., Brooklyn 6  
Utility Co., 636 W. 44 St., N. Y. 26  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila.

#### HAND CREAMS, (Protective)

Baird & McGuire, Inc., Holbrook, Mass.  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Chicago Sanitary Prods. Co., 31 S. Throop St., Chicago 8  
Davies Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros. 702 S. Wolfe St., Baltimore 3  
E. I. du Pont de Nemours Co., Wilmington, Dela.  
R. M. Hollingshead Corp., Camden, N. Y.  
Hysan Products Co., 923 W. 38 Pl., Chicago  
Old Empire, Inc., Mt. Prospect & Verona, Newark, N. J.  
Private Brands, Inc. 300 S. 3rd St. Kansas City Kan.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Utility Co., 636 W. 44 St., N. Y. 36

#### HAND DRYERS, ELECTRIC (See Dryers, Hand)

#### HAND SOAP, LIQUID (see Potash Soaps)

#### HAND SOAP (Mechanic's Hand Paste)

Aid Soap Mfg. Co., Rochester, Pa.  
Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Industrial Soap Dept., Chicago 9  
Boston Chemical Industries, 64 E. Brookline St., Boston 18  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 100 Park Ave., N. Y. 22  
Crystal Chem. Co., 823 Hunterdon St., Newark 8, N. J.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Davies Young Soap Co., Dayton, O.  
Eagle Soap Corp., Huntington, Ind.

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**POWDERED WOOL** For borax blended white soaps, a fine blend of tallow and coconut oil. Quick lather, medium titer—94% anhydrous soap.

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## HAND SOAP, PASTE (Contd.)

Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
 Frontier Chemical Co., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Gajer, Inc., Box 991, Akron, O.  
 Hammons Products, Inc., 1141 W. Wildwood Ave., Fort Wayne, 2, Ind.  
 Hewitt Soap Co., Dayton, O.  
 R. M. Hollingshead Co., Camden, N. J.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 J. Chemical Works, 602 W. 37th St., N. Y. 18  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
 Kutol Products Co., 2817 Highland Ave., Cincinnati  
 Los Angeles Soap Co., 617 E. First St., Los Angeles  
 Mione Mfg. Co., Collingdale, Pa.  
 Murro Chemical Co., Portsmouth, Va.  
 National Milling & Chem. Co., 4601 Nixon St., Phila. 29  
 Na iona: Sanitary Prods., 3944 Olive St., St. Louis  
 North Coast Soap & Chem. Wks., Seattle, Wash.  
 Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
 Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Procter & Gamble Dist. Co., Cincinnati  
 Puritan Chem. Co., Atlanta, Ga.  
 Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.  
 S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
 Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 Science Industries, 1509 N. Broadway, St. Louis  
 Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
 E. B. Snyder Labs., 2137 E. Harold St., Phila. 25  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Sugar Beet Prods. Co., Saginaw, Mich.  
 Surety Laboratories, 3946 Olive St., St. Louis 8  
 Swift & Co., Chicago  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Theobald Industries, P. O. Box 72, Harrison, N. J.

Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Tru-Pine Co., 7638 Vincennes Ave., Chicago 20  
 U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12  
 Utility Co., 636 W. 44th St., N. Y.  
 Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila.  
 Vliet Soap Co., 638 Monroe St., Brooklyn  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City  
 G. H. Wood & Co., Toronto, Ont., Canada.

## HAND SOAP, Powdered

Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
 Armour Industrial Soap Dept., Chicago 9  
 Banner Chem. Prods. Co., 9 Calumet St., Newark, N. J.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Britex Corp., 17 Lewis Wharf, Boston 10  
 Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Colgate-Palmolive Co., 100 Park Ave., N. Y. 22  
 Crystal Chem. Co., 823 Hunterdon St., Newark, N. J.  
 Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
 Eagle Soap Corp., Huntington, Ind.  
 East Coast Soap Corp., 89 Coffey St., Bklyn.  
 J. Evenson & Sons., Camden, N. J.  
 Essential Chemicals, 5906 N. Port Washington Rd., Milwaukee  
 Finnell System, Inc., 500 East St., Elkhart, Ind.  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Hewitt Soap Co., Dayton, O.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
 Kutol Products Co., 2817 Highland Ave., Cincinnati  
 Lightfoot Schultz Co., Hoboken, N. J.  
 R. G. Liner Co., Canton, N. C.



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## HAND SOAP, POWDERED (Contd.)

Los Angeles Soap Co., 617 E. 1st St., Los Angeles 51  
Midland Laboratories, Dubuque, Iowa  
M. & H. Laboratories, 2705 Archer Ave., Chicago  
Mione Mfg. Co., Collingdale, Penna.  
Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
New Jersey Chem. Co., Lyndhurst, N. J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Plunkett Chemical Co., 3500 S. Morgan Ave., Chicago 9  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati  
Puritan Chem. Co., Atlanta  
Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
S. & S. Soap Co., 815 E. 135th St., N. Y. 54.  
Sander Chem. Co., 2205 N. American St., Phila. 33  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
I. Schneid, Inc., 916 Ashby St., NW, Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
The Utility Co., 636-642 W. 44 St., N. Y. 26  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12.  
Warren Soap Mfg. Co., Cambridge, Mass.  
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago  
Zeen Chemical Co., 2000 Elm St., Cleveland

## HARD WATER SOAPS (Salt Water Soaps)

Aid Soap Mfg. Co., Rochester, Pa.  
Armour Soap Wks., 1355 W. 31st St., Chicago  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
James Counts Soap Co., 2nd & Washington Aves., St. Louis  
Cudahy Packing Co., 221 N. La Salle St., Chicago  
Duveen Soap Corp., 36-14 35th St., Long Island 6, N. Y.  
J. Eavenson & Sons, Camden, N. J.  
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Harley Soap Co., Pierce & Orthodox Sts., Phila., Pa.  
Haskins Bros. & Co., Omaha, Neb.  
Higley Chemical Co., Dubuque, Iowa  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
National Soap Co., 357 South 25th St., Tacoma, Wash.  
North Coast Soap & Chem. Works, Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Swift & Co., Union Stock Yards, Chicago  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Vliet Soap Co., 638 Monroe St., Brooklyn  
Warren Soap Mfg. Co., Brighton, Mass.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

## HEPTACHLOR (Technical)

Velsicol Corp., 330 E. Grand Ave., Chicago

## HEPTACHLOR FORMULATIONS

California Spray-Chemical Corp., Richmond, Calif.  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
McLaughlin, Gormley, King Co., 1715 5th St., SE, Minneapolis  
S. B. Penick & Co., 50 Church St., N.Y.8  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Velsicol Corp., 330 E. Grand Ave., Chicago

## HEXACHLOROPHENE

Sindar Corp., 330 W. 42nd St., N. Y. 18

## HEXAETHYL TETRAPHOSPHATE

American Potash & Chem. Co., 5060 W. 6th St., Los Angeles  
California Spray-Chemical Corp., Richmond, Calif.  
Eastman Chemical Products, Inc., Kingsport, Tenn.  
Geigy Agric. Chems. 89 Barclay St., N. Y.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago  
Westvaco Mineral Prods. Div., Food Machy & Chem. Corp., 161 E. 42nd St., N. Y. 17

## HOMOGENIZERS (Dispersion Equipment) (see also Colloid Mills)

Abbe Engineering Co., Little Falls, N. J.  
Gifford Wood Co., Hudson, N. Y.  
Kinetic Dispersion Corp., 95 Botsford Pl., Buffalo, N. Y.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Manton Gaulin Mfg. Co., 44 Garden St., Everett, Mass.  
Mecchaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Morehouse-Cowles, Inc., 1150 San Fernando Rd., Los Angeles  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (used)  
Read Standard Corp., York, Pa.  
U. S. Stoneware Co., Akron 9, O.  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

## HOUSEHOLD AMMONIA (prepared, in bulk and private brand)

A-M-R Chem. Co., 985 E. 35th St., Brooklyn 10  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good, Inc., 2107 Susquehanna Ave., Phila. 25  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
J. L. Prescott Co., 27 8th St., Passaic, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
Trio Chemical Wks., 341 Scholes St., Bklyn 6  
Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City.

## HOUSEHOLD INSECTICIDE BASE OILS (see Insecticide Base Oils)

## HOUSEHOLD INSECTICIDES, LIQUID

Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
Airmek, Inc., 241 E. 44 St., N. Y. 17  
Ampion Corp., 4-48 47th Ave., L. I. C., N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553 63rd St., Brooklyn  
California Spray-Chemical Corp., Richmond, Calif.  
Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
Chemical Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Churchill Mfg. Co., Galesburg, Ill.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems. 89 Barclay St., N. Y.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Gulf Oil Co., Gulf Bldg., Pittsburgh  
Higley Chemical Co., Dubuque, Iowa  
Hockwald Chemical Co., 135 Mississippi St., San Francisco  
R. M. Hollingshead Corp., Camden, N. J.  
James Huggins & Son, 239 Medford St., Malden, Mass.  
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K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irving, N. J.  
Klenzade Prods., Beloit, Wis.  
Klix Chem. Co., 2460 Third St., San Francisco  
M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
Midland Labs., Dubuque, Iowa  
Miller Products Co., Portland 1, Ore.  
New Jersey Chem. Co., 50 Park Ave., Lyndhurst, N. J.  
John Opitz, Inc., 50-14-39th St., Long Island City  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Perrow Chem. Co., Hurt, Va.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puritan Chem. Co., 916 Ashby St., N. W., Atlanta  
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.  
Rex-Cleanwall Corp., Brazil, Ind.  
Schaeffer Mfg. Co., 102 Barton St., St. Louis, Mo.  
I. Schneid, Inc., 916 Ashby St., NW, Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
Standard Oil Co., of Calif., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Tru-Pine Co., 7638 Vincennes Ave., Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12.  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
G. H. Wood & Co., P. O. Box 344, Toronto, Ont., Canada

## HOUSEHOLD INSECTICIDES, POWDERED

Ampion Corp., 4-48 47th Ave., L. I. C. N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn 10.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brileco Labs., 1553 63rd St., Brooklyn 19  
California Spray-Chemical Corp., Richmond, Calif.  
Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore 30, Md.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Exterminating Materials Co., 555 W. 22nd St., N. Y.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Klenzade Prods., Beloit, Wis.  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
Midland Labs., Dubuque, Ia.  
Miller Prods. Co., Portland 1, Ore.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
John Opitz, Inc., 50-14 39th St., L. I. City  
Penna. Salt Mfg. Co., Widener Bldg., Phila.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puritan Chemical Co., 916 Ashby St., N. W., Atlanta  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.  
Science Industries, 1509 N. Broadway, St. Louis  
H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12  
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Wilkil Company, 1174 S. La Brea Ave., Los Angeles  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada

## HYDROGENATION PLANTS (see Oil Hydrogenation Plants)

## HYDROXYETHYL CELLULOSE

Carbide & Carbon Chem. Co., 30 E. 42nd St., N. Y. 17  
Dow Chem. Co., Midland, Mich.  
Hercules Powder Co., 961 Market St., Wilmington, Dela.

## HYDROSULFITES (Soap Bleaches)

Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chem., Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## HYPOCHLORITES (see Chlorine) (see Laundry Bleach)

## INSECT POWDER GUNS (see Dusters for Insecticide Powder)

## INSECT REPELLENTS

A-M-R Chemical Co., 985 E. 35th St., Brooklyn 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Barret Div., Allied Chem. & Dye Corp., N. Y. 6  
Bridgeport Brass Co., Bridgeport 2, Conn.  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
Chase Prods. Co., 1816 St. Charles Rd., Maywood, Ill.  
Connecticut Chem. Research Corp., Bridgeport, Conn.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland 14  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
Continental Car-Na-Var Corp., Brazil, Ind.  
Dow Chemical Co., Midland, Mich.  
Eagle Soap Corp., Huntington, Ind.  
Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore, Md.  
Fuid Bros., Inc., 702 S. Wolfe St., Baltimore  
Kay-Fries Chems., Inc., 180 Madison Ave., N. Y. 16  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Michigan Chem. Corp., St. Louis, Mich.  
Midland Laboratories, Dubuque, Iowa  
Monsanto Chemical Co., St. Louis 4  
Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Puro Co., 2801 Locust St., St. Louis  
Tru-Pine Co., 7638 Vincennes Ave., Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Van Dyk & Co., Belleville, N. J.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Williams Chem. Co., 487 Broadway, N. Y. 13

## INSECTICIDAL SMOKES

American Nexa Corp., 342 Madison Ave. N. Y.  
Continental Chemiste Coup., 2256 W. Ogden Av., Chgo.  
Lindavap, Inc., 2175 W. Stadium Blvd., Ann Arbor, Mich.

## INSECTICIDE BASE OILS (Petroleum Bases for Household, Cattle and other Insect Oil Sprays, Polishes, etc.)

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Anderson-Prichard Oil Corp., Oklahoma City, Okla.  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Beacon Oil Co., Everett, Mass.  
Buffalo Solvents & Chems. Corp., P. O. # 73, Sta. B Buffalo, N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Esso Standard Oil Co., 15 W. 51 St., N. Y. 19  
Gulf Oil Co., Gulf Bldg., Pittsburgh  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Pennsylvania Refining Co., Butler, Pa.  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Chemicals, Inc., 630 Fifth Ave., N. Y.  
Skelly Oil Co., Skelly Bldg., Kansas City, Mo.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco



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Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Sun Oil Co., 1608 Walnut St., Philadelphia  
Texas Co., 135 E. 42nd St., N. Y.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Jos. Turner & Co., Ridgefield, N. J.  
Wisconsin Solvents & Chem. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

## INSECTICIDE CONCENTRATES, Synthetic (see also Allethrin)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
California Spray-Chemical Corp., Richmond, Calif.  
Chipman Chem. Co., Bound Brook, N. J.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Fairfield Chemical Div., 1701 Patapsco Ave., Baltimore, Md.  
General Chem. Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y. 6  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
B. F. Goodrich Chem. Co., 2060 E. 9 St., Cleveland  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis 14  
Michigan Chemical Corp., St. Louis, Mich.  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
S. B. Penick & Co., 50 Church St., N. Y. 8  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore

Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Rohm & Haas, Inc., 222 W. Washington Sq., Phila.  
Shell Chemical Co., 460 Park Ave., N. Y.  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Westvaco Chem. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## INSECTICIDE SPRAY PERFUMES (see Also Perfuming Compounds)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Antoine Chiris Co., 212 E. 23rd St., N.Y.  
Descollonges, Inc., 160 5 Ave., N. Y. 10  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
Felton Chemical Co., 603 Johnson Ave., N. Y. C.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y. C.  
Lautier Fils, Inc., 321 5th Ave., N. Y. C.  
Magnus, Mabey & Reynard, Inc., 16 Desbrosses St., N. Y.  
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.  
Polak's Frutal Works, 33 Sprague Ave., Middletown, NY  
Polak & Schwarz, Inc., 667 Washington St., N. Y.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
Rhodia, Inc., 230 Park Ave., N. Y.  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.

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Synflour Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tombarel Prods. Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Co., 25 Verona Ave., Newark, N. J.

INSECTICIDE SPREADERS (see Clays), (see Fillers)

INSECTICIDE VAPORIZERS (see Vaporizers, insecticide)

INSECTICIDES (see Household Insecticides)

ISO-PROPYL ALCOHOL (see Alcohol, Iso-Propyl)

JACKETED KETTLES (see Kettles)

JANITOR'S CLEANING CARTS (see Trash Carts)

JARS, GLASS (see Bottles and Jars)

JASMIN, ARTIFICIAL (see Aromatic Chemicals)

KAOLIN (see Clays)

KEROSENE (see Insecticide Base Oils)

#### KETTLES

Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.  
Alsop Engineering Corp., Milldale, Conn.  
Bethlehem Foundry & Mach. Co., Grand Cent. Bldg., N. Y.  
S. Blickman, Inc., 72 Gregory Ave., Weehawken, N. J.  
Conn & Co., Warren, Pa.  
J. H. Day Co., 1444 Harrison Ave., Cincinnati  
Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Industrial Process Engineers, 8 Lister Ave., Newark 5, N. J.  
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
Littleford Bros., 443 E. Pearl St., Cincinnati  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago  
Pfaudler Co., 1000 West St., Rochester, N. Y.  
Poulsen Co., 5957 W. 3rd St., Los Angeles  
Read Standard Corp., York, Pa.  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
Henry Simon Ltd., Stockport, England  
Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.  
Struthers-Wells Co., Warren, Pa.  
U. S. Stoneware Co., Akron 9, O. (Porcelain)

KIESELGUHR (Infusorial Earth) (see Abrasives and Fillers)

KITS (Metal) (see Pails, Metal)

KNEADERS (see Mixing Machinery)

LABELING MACHINES (Bottles and Cans)

Alsop Engineering Corp., Milldale, Conn.  
Burt Machine Co., Baltimore, Md.  
Chisholm-Ryder Co. of Pa., Hanover, Pa.  
Economic Machinery Corp., 60 Fremont St., Worcester, Mass.



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Hornney & Co., 420 Lexington Ave., N. Y.  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago 22 (used)  
Mandel Products, 207 Astor St., Newark, N. J.  
M. R. M. Co., 191 Berry St., Brooklyn  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago (Used)  
New Jersey Machine Corp., Hoboken, N. J.  
Package Mch. Co., East Longmeadow, Mass.  
Pneumatic Scale Corp., North Quincy, Mass.  
Potdevin Machine Co., 200 North St., Teterboro, N. J.  
Scientific Filter Co., 59 Rose St., N. Y.  
Standard-Knapp Div., Portland, Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

## **LABELING MACHINES (Boxes & Cakes)**

Alsop Engineering Corp., Milldale, Conn.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Loeb Equipment & Supply Co., 810 W. Superior St.,  
Chicago (used)  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago (Used)  
New Jersey Machine Corp., Hoboken, N. J.  
Pneumatic Scale Corp., North Quincy, Mass.  
Potdevin Machine Co., 200 North St., Teterboro, N. J.  
Scientific Filter Co., 59 Rose St., N. Y.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

## **LABELS, Paper and Foil**

Cameo Die & Label Co., 154 W. 14 St., N. Y.  
Dennison Mfg. Co., Framingham, Mass.  
Ever Ready Label Corp., Belleville 9, N. J.  
Foilcraft Printing Corp., 3611 14th Ave., Bklyn.  
Foxon Co., Providence, R. I.  
Milprint, Inc., Milwaukee 1, Wis.  
Reynolds Metals Co., Louisville, Ky.

## **LABORATORIES, TESTING**

Carl N. Anderson, 342 Madison Ave., N. Y. 17  
Louis C. Barail, 60 Freeman St., Brooklyn 22, N. Y.  
Entomological Testing Labs., 1 Park Ave., N. Y. 16  
Hudson Laboratories, Inc., 117 W. 13th St., N. Y. 11  
Illinois Chemical Labs., Gridley, Ill.  
Kroner Laboratories, Inc., 275 Water St., N. Y. 7  
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Molnar Laboratories, 211 E. 19th St., N. Y.  
Alan Porter Lee Associates, 19 South St., Morristown,  
N. J.  
Paul H. Scrutcheff, 1237 Church St., Hannibal, Mo.  
Seil, Putt & Rusby, 16 E. 34th St., N. Y.  
Foster D. Snell, 29 W. 15th St., N. Y.  
Stillwell & Gladding, 130 Cedar St., N. Y.  
United States Testing Co., 1415 Park Ave., Hoboken,  
N. J.  
Wisconsin Alumni Research Foundation, Madison, Wis.

## **LABORATORY ANIMALS**

Albino Farms, Red Bank, N. J.  
Breeding & Lab. Inst., 619 Kent Ave., Brooklyn  
Foster D. Snell, 29 W. 15th St., N. Y. 11

## **LABORATORY APPARATUS AND EQUIPMENT**

Atlas Electric Devices Co., 4114 N. Ravenswood Ave.,  
Chicago  
Cargille Scientific, Inc., 117 Liberty St., N. Y. 6 (chlorine  
and quaternary test kits)  
Central Scientific Co., 1700 W. Irving Pk., Chicago  
J. H. Day Co., Inc., Cincinnati 22 (roller mills)  
Harry W. Dietert Co., 9330 Roselawn Ave., Detroit (de-  
vice for determining moisture content)  
Ertel Engineering Corp., West Front St., Kingston,  
N. Y. (Filters)  
Fisher Scientific Co., Pittsburgh

Emil Greiner Co., 161 Avenue of Americas, N. Y.  
Kent Machine Wks., 37 Gold St., Brooklyn (roller mills)  
Laboratory Construction Co., 111 Holmes St.,  
Kansas City, Mo.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst,  
N. J. (mills and pladders)  
Chas. Ross & Son Co., 150-154 Classon Ave., Brooklyn 5  
(roller mills and mixers)  
Scientific Materials Co., Pittsburgh  
Arthur H. Thomas Co., Wash. Sq., Phila. (emulsion  
testing)  
U. S. Stoneware Co., Akron 9, O. (Ball Mills)  
U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.  
Will Corp., Rochester, N. Y.

## **LABORATORY CHEMICALS**

J. T. Baker Chemical Co., Phillipsburg, N. J.  
E. I. du Pont de Nemours & Co., Wilmington  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Fisher Scientific Co., 717 Forbes St., Pittsburgh  
General Chemical Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Mallinckrodt Chemical Works, 3600 N. 2nd St., St. Louis  
Merck & Co., Rahway, N. J.

## **LABORATORY TESTING EQUIPMENT (see Apparatus and Equipment)**

## **LAMBSWOOL DISCS (for Floor Machines)**

American Standard Manufacturing Co., 2509-2513 South  
Green Street, Chicago 8, Illinois  
Beverly Manufacturing Co., 494 Main St., Boston 29

## **LANOLIN**

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.  
American Lanolin Corp., Lawrence, Mass.  
Bopf-Whittam Corp., 1143 Elizabeth Ave., W. Linden,  
N. J.  
Botany Worsted Mills, Dayton Ave., Passaic, N. J.  
Frank G. Fanning Co., 352 Doremus Ave., Newark, N. J.  
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Griffin Chem. Co., 1000 16th St., San Francisco  
Hummel Chemical Co., 90 West St., N. Y.  
Lanaetex Products, Inc., 151 3rd Ave., Elizabeth, N. J.  
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
Merck & Co., Rahway, N. J.  
Pfaltz & Bauer, Inc., 350-5th Ave., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westbrook Lanolin Co., Yorkshire, England

## **LAUNDRY BLEACH (Sodium Hypochlorite)**

American Soap & Washoline Co., Cohoes, N. Y.  
Columbia-Southern Chem. Corp., Pittsburgh  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
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Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati  
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Chicago Sanitary Prods. Co., 3100 S. Throop St.,  
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## TABLE OF CONTENTS

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springtails  
cockroaches  
crickets  
earwigs  
termites  
dry rot fungi  
wood-, book-boring  
and related beetles

psocids  
bedbugs and other bugs  
clothes moths  
household fumigation  
hide and carpet beetles  
ants  
bees and wasps  
stored product pests

spider or ptinid beetles  
lice  
fleas  
flies and mosquitos  
spiders  
mites  
ticks  
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Mundo Trading Co., 6325 Pine Ave., Bell, Calif.  
Palmer Supplies Co., 2281 Scranton Rd., Cleveland  
Bill Plowfield, 1011 Chestnut St., Phila.  
Ken Poulsen Associates, P. O. Box 801, Madison, Wisc.  
Pressel & Co., 1353 Myrtle Ave., Brooklyn  
Ryan Leary Sales Co., 373 Trapelo Rd., Belmont 79, Mass.  
Selective Enterprises, 1200 N. Alvarado St., Los Angeles 26  
Thos. J. Shields Co., 11 Water St., N. Y. 4  
M. H. Siegel, 7020 Park Heights Ave., Baltimore  
Harry Schwartz, Box 12, Little Neck, N. Y.  
Trump Associates, Inc., 545 N. 4th Ave., Tucson, Ariz.  
Van Horn Metz & Co., 241 E. Elm St., Conshohocken, Pa.  
John F. Walsh, 2255 Stephen Long Dr., N.E. Atlanta 5, Ga.  
Silas Wootton & Co., Merchandise Mart Bldg., Dallas, Texas  
Jesse S. Young Co., 2 Park Ave., N. Y. 16

## MARINE SOAPS (see Salt Water Soaps)

## MASKING COMPOUNDS (see also perfuming compounds)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Felton Chem. Co., 603 Johnson Ave., Bklyn.  
Firmenich, Inc., 250 W. 18 St., N. Y.  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Fries & Fries, Inc., 110 E. 70 St., Cincinnati  
Fritzche Brothers, Inc., 76 9th Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42 St., N. Y.  
Lautier Fils, Inc., 321 5th Ave., N. Y.  
Magnus, Mabée & Reynard, 16 Desbrosses St., N. Y.  
A. Maschmeijer, Jr., Div., 630 5th Ave., N. Y.  
Norda Essential Oil & Chem. Co., 601 W. 26 St., N. Y.  
Orbis Prods. Corp., 601 W. 26 St., N. Y.  
Polak's Frutal Wks., Inc., 33 Sprague Ave., Middletown, N. Y.  
Polak & Schwarz, Inc., 667 Washington St., N. Y.  
Rhodia, Inc., 230 Park Ave., N. Y.  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Synfleur Scientific Laboratories, Monticello, N. Y.  
Syntomatic Corp., 114 E. 32 St., N. Y.  
Tombarel Prods. Corp., 725 Broadway, N. Y.  
Ungerer & Co., 161 Ave. of Americas, N. Y.

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NUTRALCO No. 350 (IN)  
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DEODORANT BOUQUET N-4 (I)  
DEODORANT P. No. 1954 (S)  
OIL BOUQUET P.C. No. 3127 (S)  
OIL BOUQUET P.D. No. 250 (P)  
OIL BOUQUET R.C. No. 604 (PE)  
OIL BOUQUET SASS. No. 1954 (A)  
OIL BOUQUET S.T. No. 275 (P)  
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IN—Insecticides, P—Paints, PE—Petroleum,  
S—Sprays, V—Varnishes, W—Waxes

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Oil Bouquet C No. 613  
Oil Jasmin No. 613  
Oil Mimosa No. 615  
Oil Wild Rose No. 55  
Imitation Geranium S

## LIQUID SOAPS

Oil Honeysuckle No. 61  
Oil Mint No. 523  
Oil Narcissus No. 614  
Oil Vermont Pine No. 55  
Imitation Geranium No. 24

## SHAMPOO ODORS

Oil Bouquet Apple Blossom No. 8240  
Oil Bouquet Almond No. 8262  
Oil Clover No. 888  
Oil Corylopsis No. 55  
Oil Bouquet H.O. No. 8267  
Oil Bouquet M. No. 55  
Oil Bouquet Narcissus No. 55  
Oil Bouquet Wild Rose No. 55  
Oil Bouquet T.V. No. 55

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Mint Bouquet No. 55  
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Wistaria No. 55

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Sassafras No. 55  
Ylang Ylang No. 55

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Oil Lilac No. 4315  
Oil Narcissus No. 4316  
Oil Rose No. 4317  
Pine Bouquet No. 4318  
Bouquet R.G. No. 4139  
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van Ameringen-Haebler, Inc., 521 W. 57 St., N. Y.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chemical Co., 26 Verona Ave., Newark, N. J.

## MATS (Corrugated, Perforated, Link)

American Mat Corp., 1799 Adams St., Toledo 4, O.  
Durable Mat Co., 575 N. Pleasant St., Norwalk, O.  
Dutro Co., 3110 Adeline St., Oakland, Calif.  
Gruth Prods. Co., 7828 Sunset Dr., Elmwood Park, Ill.  
Perfo Mat & Rubber Co., 461 Fourth Ave., N. Y. 16  
Superior Rubber Mfg. Co., 501 W. 82nd St., Chicago  
Wearproof Mat Co., 2156 W. Fulton St., Chicago 12

## MATS (Fibre, Fabric, Straw)

Allied Mat & Matting Co., 279 Pearl St., N. Y.  
Durable Mat Co., 575 N. Pleasant St., Norwalk, O.  
Dutro Co., 3110 Adeline St., Oakland, Calif.  
Frank T. Greco, 305 5th Ave., N. Y.

## MECHANIC'S HAND PASTE (see Hand Soap)

## MEDICINAL SOAPS, LIQUID (see Potash Soaps)

## MENTHOL

(see also Essential Oils)

Biddle Sawyer Corp., 20 Vesey St., N. Y. 7  
Consumers Import Co., 350 Fifth Ave., N. Y.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
P. R. Dreyer, 601 W. 26th St., N. Y.  
Enco Chem. Corp., 441 Lexington Ave., N. Y.  
Fine Chems. Div., Shulton, Inc., 630 5th Ave., N. Y.  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros. Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Magnus, Mabée & Reynard, Inc., 16 Desbrosses St., N. Y.  
McKesson & Robbins, Inc., 155 E. 42nd St., N. Y.  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
Polak's Frutal Works, 33 Sprague Ave., Middletown, N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Tombarel Prods., 725 Broadway, N. Y. 3

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## METALLIC SOAPS (see Stearates)

## METHANOL (Synthetic) (see also Alcohols)

Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati  
Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo, N. Y.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chems. Co., 2540 W. Flounoy St., Chicago  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis, Ind.  
Merck & Co., Rahway, N. J.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Ohio Solvents & Chemicals Co., 3470 W. 140 St., Cleveland  
Olin Mathieson Chem. Corp., Baltimore 3  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Southern Solvents & Chemicals Co., 1354 Jefferson Highway, New Orleans  
Texas Solvents & Chemicals Co., 8501 Market St., Houston, Texas

Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee, Wisc.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., SW, Grand Rapids Mich.

## METHOXYCHLOR

E. I. du Pont de Nemours & Co., Wilmington, Del.  
Geigy Agric. Chems., 89 Barclay St., N. Y.

## METHOXYCHLOR FORMULATIONS

California Spray-Chemical Corp., Richmond, Calif.  
Chemical Service of Balto., Howard & West Sts., Balto.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
McLaughlin, Gormley, King Co., 1715 5th St., SE, Minneapolis  
Olin Mathieson Chem. Corp., Baltimore 3  
S. B. Penick & Co., 50 Church St., N. Y. 8  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

## METHYL ANTHRANILATE

(see also Aromatic Chemicals)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Dodge & Olcott, Inc., 180 Varick St., N. Y. 14  
Dow Chemical Co., Midland, Mich.  
Fulton Chemical Co., 603 Johnson Ave., Brooklyn, N.Y.  
Florasynth Labs., 900 Van Nest Ave., N. Y.  
Fritzsche Bros., 76 9th Ave., N. Y. 11  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Magnus, Mabée & Reynard, 16 Desbrosses St., N. Y. 13  
A. Maschmeijer, Jr., Div., 630 5th Ave., N. Y.  
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Corp., 601 W. 26 St., N. Y. 1  
Polak's Frutal Wks., 33 Sprague St., Middletown, N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Unger & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chemical Co., 26 Verona Ave., Newark 4, N. J.

## METHYL BROMIDE

Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
Dow Chemical Co., Midland, Mich.  
Michigan Chem. Co., St. Louis, Mich.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## METHYL CELLULOSE

Antara Chemicals, Div., General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Dow Chemical Co., Midland, Mich.  
Hercules Powder Co., 961 Market St., Wilmington, Del.

## METHYL CHLORIDE

Belle Alkali Co., Belle, W. Va.  
Central Solvents & Chems. Co., 2450 W. Flounoy St., Chicago  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleve.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Eston Chems. Div., American Potash & Chem. Corp., Los Angeles 54  
Solvay Process Div., Allied Dye & Chem. Corp., 61 Broadway, N. Y.  
Virginia Smelting Co., W. Norfolk, Va.

## METHYL SALICYLATE (Artificial Wintergreen)

(see also Aromatic Chemicals)

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Dodge & Olcott, Inc., 180 Varick St., N. Y. 14  
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BARECO WAX	Melting Point °F	Penetration	Color N.P.A.	Acid Number	Sapon. Number
Petrolite 700	190 Min.	4 Max.	1½ Max.	Nil	Nil
Be Square 190	190/195	2-7	1½ Max.	Nil	Nil
Ultracera	195 Min.	4 Max.	1½ Max.	Nil	Nil
Petrolite 1035	195 Min.	2 Max.	1½ Max.	Nil	Nil
Petronauba C	180 Min.	7 Max.	3 Max.	22-28	50-60
Petronauba D	185 Min.	5 Max.	6 Max.	20-28	50-60
Petronauba F	180 Min.	5 Max.	3 Max.	15-25	50-60
Petrolite 15	180 Min.	4-6	4-5	15-17	45-55
Petrolite 23	180 Min.	4-6	4-5	20-25	55-65
Petrolite 36	180 Min.	5-7	4-6	30-35	75-85
Petrolite PE 100	195-200	2-3	4-6	15-20	45-55
Petrolite R 50*	190-200	2 Max.	4½ Max.	40-50	65-80
Petrolite P 20	210-220	2 Max.	3 Max.	Nil	Nil
Petrolite P 25	210-220	2 Max.	3 Max.	Nil	Nil

\* R-50 is a microcrystalline wax—phenolic terpene resin blend. It is compatible with the waxes usually used in emulsion polishes, and can be used in all emulsion equipment. Its use saves the nuisance of separately storing and handling both resin and wax.

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Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13  
A. Maschmeijer, Jr., Div., 630 5th Ave., N. Y.  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Neumann, Buslee & Wolfe, Inc., 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26 St., N. Y. 1  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chemical Co., 26 Verona Ave., Newark, N. J.

## MICROCRYSTALLINE WAXES (Emulsifiable)

International Wax Refining Corp., Valley Stream, N. Y.  
Bareco Wax Co., Div. Petrolite Corp., Box 2009, Tulsa, Okla.  
Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Pennotex Oil Corp., 29 Broadway, N. Y.  
Warwick Wax Co., 10-10 44th Ave., L. I. C., N. Y.  
Wax Corp. of America, 21-29 Dunham Pl., Bklyn.

## MILDEW PREVENTIVES

A-M-R Chemical Co., 985 E. 35th St., Bklyn.  
Antara Chemicals, Div., General Aniline & Film Corp., 435 Hudson St., N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Chem. Service Co. of Baltimore, Howard & West Sts., Baltimore  
Click Chem. Corp., 601 Columbus Ave., Mount Vernon, N. Y.  
Cuprinol Div., Darworth, Inc., Simsbury, Conn.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Mallinckrodt Chemical Wks., St. Louis 7  
Monsanto Chemical Co., St. Louis  
Olin Mathieson Chem. Corp., Baltimore 3  
Oronite Chem. Co., 200 Bush St., San Francisco  
Prior Chemical Corp., 420 Lexington Ave., N. Y.  
Rohm & Haas Co., Washington Sq., Phila. 5  
Sindar Corp., 330 W. 42nd St., N. Y. 36  
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17  
Warwick Chemical Co., 10th St. & 44 Ave., Long Island City, N. Y.

## MILLS, SOAP POWDER (see Soap Machinery & Grinding Machinery)

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## MINERAL SOAP (see Petrolatum)

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(see also Essential Oils)

American Cyanamid Co., Bound Brook, N. J.  
Dodge & Olcott, Inc., Inc., Varick St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Fritzsche Bros., 76 9th Ave., N. Y. 11  
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Roubechez, Inc., 8 E. 12th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13

## MIXERS (Portable)

Alsop Engineering Corp., Milldale, Conn.  
Conn. & Co., 9 S. Marion St., Warren, Pa.  
Ertel Engineering Corp., West Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
F. R. Hormann & Co., 17 Stone St., Newark, N. J.  
Houchin Machinery Co., Hawthorne, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Mixing Equipment Co., Inc., 135 Mt. Read Blvd., Rochester, N. Y.  
Morehouse-Cowles, Inc., 1150 San Fernando Rd., Los Angeles  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Premier Mill Corp., 61 Gates Ave., Geneva, N. Y.  
Rapid Machy. Co., Marion, Ia.  
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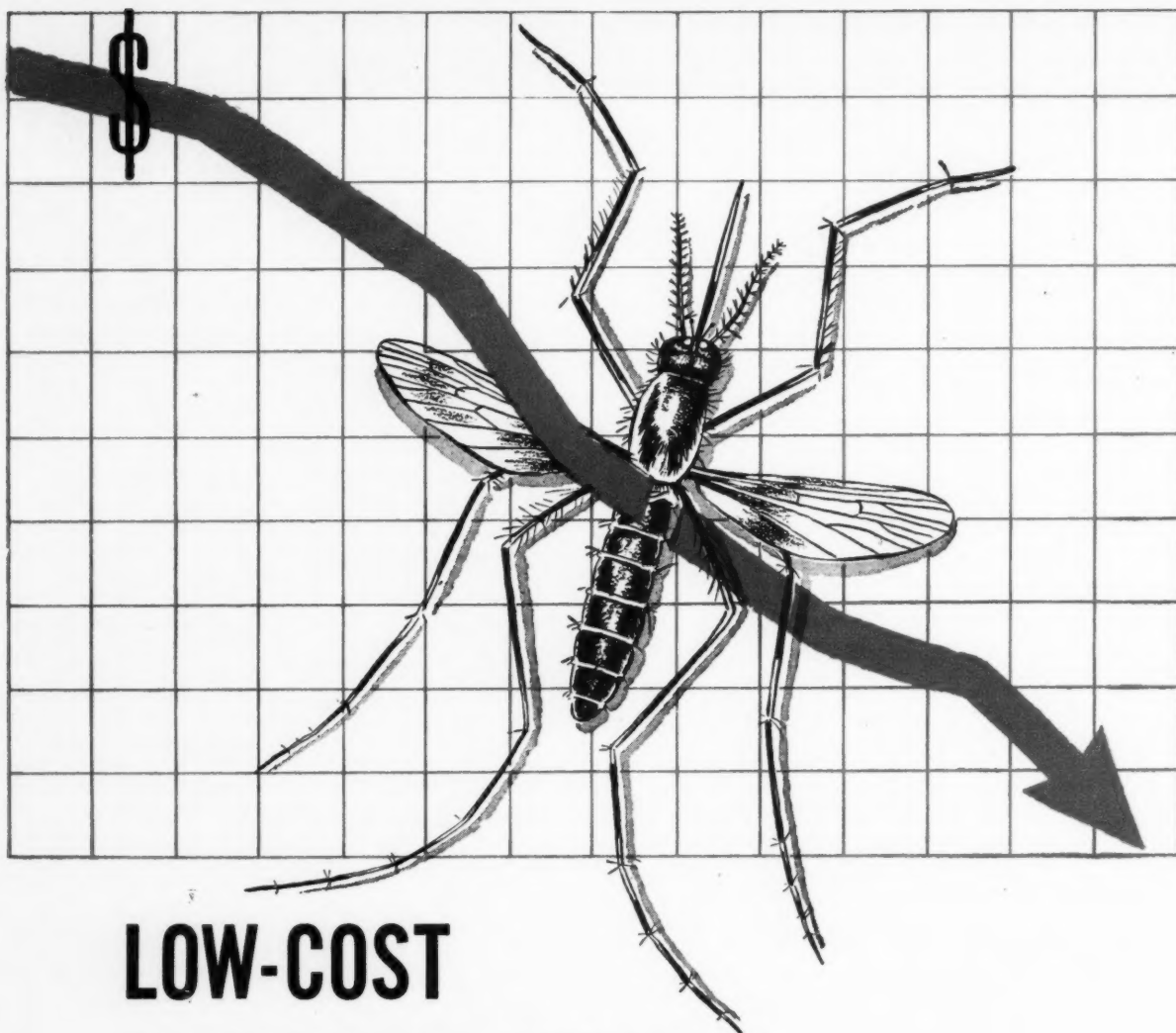
Alsop Engineering Corp., Milldale, Conn.  
Conn. & Co., 9 S. Marion St., Warren, Pa.  
J. H. Day Co., 4932 Beech St., Norwood, Cincinnati 1, O.  
H. Hockmeyer & Co., 341 Coster St., N. Y.  
Houchin Machy. Co., Hawthorne, N. J.  
Kent Machine Works, 39 Gold St., Brooklyn  
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Newman Tallow & Soap Mach., 1051 W. 35th St., Chicago (Used)  
Rapid Machy. Co., Marion, Ia.  
Read Standard Corp., York Pa.  
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn  
Troy Engine & Machine Co., Troy, Pa.  
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## MIXING MACHINERY (General)

Alsop Engineering Corp., Milldale, Conn.  
Amer. Mach. & Foundry Co., 261 Madison Ave., N. Y.  
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.  
Conn. & Co., 9 S. Marion St., Warren, Pa.  
J. H. Day Co., 4932 Beech St., Norwood, Cincinnati, O.  
Ertel Engineering Corp., W. Front St., Kingston, N. Y.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago  
Gifford-Wood Co., Hudson, N. Y.  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Kent Machine Works, 37 Gold St., Brooklyn  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Micro Processing Equipment, Inc., Savage, Minn.  
Mixing Equipment Co., 135 Mt. Read Blvd., Rochester, N. Y.  
Munson Mill Machy. Co., 210 Seward Ave., Utica, N. Y.  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Pfaunder Co., 1000 West St., Rochester, N. Y.  
Poulsen Co., 5937 W. 3rd St., Los Angeles  
Prater Pulverizer Co., 1829 S. 55th Ave., Chicago  
Premier Mill Corp., 61 Gates Ave., Geneva, N. Y.  
Rapid Machy. Co., Marion, Ia.  
Read Standard Corp., York, Pa.  
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn  
Raymond Pulverizer Div., 1314 N. Branch St., Chicago  
Scottdel, Inc., Swanton, Ohio  
Sprout Waldron & Co., Muncy, Pa.  
Sturtevant Mill Co., Dorchester, Boston 22, Mass.  
U. S. Stoneware Co., Akron 9, O.

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Abbe Engineering Co., Little Falls, N. J.  
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.  
Conn. & Co., 9 S. Marion St., Warren, Pa.  
J. H. Day Co., 4932 Beech St., Norwood, Cincinnati, O.  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
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 Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
 Munson Mill Machy. Co., 210 Seward Ave., Utica, N. Y.  
 Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
 H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
 Poulsen Co., 5957 W. 3rd St., Los Angeles  
 Prater Pulverizer Co., 1829 S. 55th Ave., Chicago  
 Rapids Machy. Co., Marion, Ia.  
 Read Standard Corp., York, Pa.  
 Robinson Mfg. Co., Muncy, Pa.  
 Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
 Scottel, Inc., Swanton, Ohio  
 Sprout Waldron & Co., Muncy, Pa.  
 F. J. Stokes Machine Co., Philadelphia, Pa.  
 Struthers-Wells Corp., Warren, Pa.  
 Sturtevant Mill Co., Dorchester, Boston 22, Mass.  
 U. S. Stoneware Co., Akron 9, O.

## MOP HANDLES

Amer. Standard Mfg. Co., 2515 S. Green St., Chicago  
 Eagle Woodenware Mfg. Co., Hamilton, O.  
 Economy Mop Wringer Co., 1944 W. 21st St., Chicago  
 Geerpres Wringer, Inc., Muskegon, Mich.  
 Hockwald Chemical Co., 135 Mississippi St., San Francisco  
 Howard Dustless Duster Co., Boston  
 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
 Moran Brush Mfg. Co., Hamden, Conn.  
 Pres-Lok Products, Inc., Midwood Station, Bklyn. 30  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Silver-Chamberlain Co., Clayton, N. Y.  
 White Mop Wringer Co., Fultonville, N. Y.

## MOP WRINGERS, PAILS AND TRUCKS

Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
 Dobbins Div., Chamberlain Corp., Waterloo, Iowa

Eagle Woodenware Mfg. Co., Hamilton, Ohio  
 Economy Mop Wringer Co., 1944 W. 21st St., Chicago  
 Fennell System, Inc., 500 East St., Elkhart, Ind.  
 Geerpres Wringer, Inc., Muskegon, Mich.  
 Geuer, Paeschke & Frey, Milwaukee, Wis.  
 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
 Kent Co., 426 Canal St., Rome, N. Y.  
 S. C. Lawlor Co., 122 N. Aberdeen St., Chicago  
 Market Forge Co., 35 Garvey St., Everett 49, Mass.  
 Palmer Fixture Co., Waukesha, Wisc.  
 Rochester Can Co., 100 Greenleaf St., Rochester, N. Y.  
 U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20  
 White Mop Wringer Co., Fultonville, N. Y.  
 Witt Cornice Co., 2138 Winchell Ave., Cincinnati

## MOPS

Amer. Standard Mfg. Co., 2515 S. Green St., Chicago  
 Amer. Textile Prods. Co., 5606 Euclid Ave., Cleveland  
 Du-All Mfg. Co., Geneva, O.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Flour City Brush Co., 1501—4th Ave., S., Minneapolis  
 Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
 Howard Dustless Duster Co., Boston, Mass.  
 Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
 Fred Mellor, Mfr., 961 Grimmer Drive, Shreveport, La.  
 Palmer Fixture Co., Waukesha, Wisc.  
 Pettett Mfg. Co., Miami, Okla.  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Piedmont Mop Co., Box 1814, Charlotte, N. C.  
 Tu-Way Products Co., 1423 Franklin St., Detroit  
 Vining Broom Co., 2530 Columbus Ave., Springfield, O.  
 Zelinkoff Co., 345-47 N. Main St., Wichita, Kan.

## MOSQUITO LARVAECIDES

A-M-R Chemical Co., 985 E. 35th St., Bklyn. 18  
 Baird & McGuire, Inc., Holbrook, Mass.  
 California Spray-Chemical Corp., Richmond, Calif.

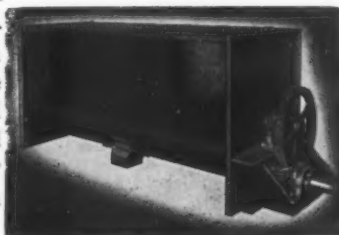


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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Chipman Chemical Co., Bound Brook, N. J.  
Davies-Young Soap Co., Dayton, O.  
Dow Chem. Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
R. M. Hollingshead Corp., Camden, N. J.  
James Huggins & Son, 239 Medford St., Malden, Mass.  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Michigan Chem. Corp., St. Louis, Mich.  
S. B. Penick & Co., 50 Church St., N. Y. 8  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Shell Chemical Corp., 50 W. 50th St., N. Y.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
James Varley & Sons, 2100 Switzer Ave., St. Louis  
Velsicol Corp., 330 E. Grand Ave., Chicago

## MOTH CAKES AND CRYSTALS (see Deodorizing Blocks)

## MOTH PROOF BAGS

Clopay Co., Cincinnati  
Kennedy Car Liner Co., Indianapolis  
LeMontre Co., Cincinnati  
Puro Co., 2801 Locust St., St. Louis 3  
Rosette Co., 200 Tillary St., Brooklyn

## MOTH PROOFING COMPOUNDS

Ampion Corp., 4-88-47th Ave., L. I. City, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Baird & McGuire, Inc., Holbrook, Mass.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Click Chemical Corp., Columbus & Carleton Aves., Mt. Vernon, N. Y.  
Dow Chemical Co., Midland, Mich.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Prods. Co., 323 W. 16th St., N. Y.  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
James Good Co., 2107 Susquehanna Ave., Philadelphia  
B. F. Goodrich Chem. Co., Cleveland 15  
R. M. Hollingshead Corp., Camden, N. J.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Merck & Co., Rahway, N. J.  
Michigan Chem. Corp., St. Louis, Mich.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2  
McLaughlin Gormley King Co., 1715 S. E. 5 St., Minneapolis  
Monsanto Chem. Co., St. Louis 4  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Per-Mo Products Co., 1716 E. 36th St., Kansas City, Mo.  
Puro Co., 2801 Locust St., St. Louis  
Quaker Chem. Prods. Co., Conshohocken, Pa.  
Reilly Tar & Chemical Corp., Indianapolis

Rohm & Haas Co., 222 W. Washington Sq., Philadelphia  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Thompson-Hayward Chemical Co., 2915 S. W. Blvd., Kansas City, Mo.  
Trio Chem. Wks., 341 Scholes St., Bklyn. 6  
Tru-Pine Co., 7638 Vincennes Ave., Chicago  
Jos. Turner & Co., Ridgefield, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Warwick Chemical Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

## MOTH SPRAYS (see Household Insecticides, Liquid; Moth Proofing Compounds)

## MOTTLED SOAPS

Armour & Co., 1355 W. 31st St., Chicago  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
National Soap Co., P. O. Box 1613, Tacoma, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## MOUSE SEEDS (see Poisoned Seeds)

## MURIATIC ACID (see Acids)

## MUSKS, ARTIFICIAL (see Aromatic Chemicals)

## NAPHTHA (see Solvents, Naphtha)

## NAPHTHALENE

Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Neville Chemical Co., Pittsburgh  
Penna. Industrial Chem. Corp., Clairton, Penna.  
Reilly Tar & Chem. Corp., Merchant Bank Bldg., Indianapolis  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Standard Naphthalene Prods. Co., S. Kearny, N. J.  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
U. S. Steel Corp., Pittsburgh  
Velsicol Corp., 330 E. Grand Ave., Chicago

## NAPHTHALENE SULFONATES

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 18  
Atlantic Refining Co., 260 S. Broad St., Phila.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
M. Michel & Co., 90 Broad St., N. Y. 4  
National Aniline & Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Oronite Chemical Co., 200 Bush St., San Francisco  
Pennsylvania Refining Co., Butler, Pa.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Ultra Chemical Wks., 2 Wood St., Paterson, N. J.  
Warwick Chemical Co., 10 St. & 44 Ave., Long Island City, N. Y.

## NAPHTHENATES (see Copper Naphthenate)

## NAPHTHENIC ACIDS (and Sulfonic Sludges)

Advance Solvents & Chem. Co., 245-5th Ave., N. Y.  
Amsco Solvents & Chemicals Co., 4619 Reading Rd., Cincinnati  
Atlantic Refining Co., 260 Broad St., Philadelphia  
Buffalo Solvents & Chemicals Co., Box 73, Station B, Buffalo  
Central Solvents & Chemicals Corp., 2540 Flournoy St., Chicago

*versatile*

*CSC emulsifier  
and chemical  
intermediate*



# AMP

## 2-AMINO-2-METHYL-1-PROPANOL

### use **AMP** as an emulsifier

AMP oleate is an economical emulsifier in water-wax emulsions. That's because AMP oleate is effective in lower concentrations than are required for comparable performance with other amine soaps. Emulsions made with relatively low concentrations of AMP oleate are stable and unchanged after repeated freeze-thaw cycles and heat stability tests. In properly formulated floor wax emulsions, AMP oleate imparts high gloss and excellent leveling characteristics.

The higher fatty acid soaps of AMP are powerful emulsifying agents in cleaners, polishes, dressings, self-polishing floor waxes, and emulsion-type paints. Evaporation loss and objectionable fumes are minimized during emulsion manufacture, due to AMP's relatively high boiling point. Films deposited from AMP-made emulsions have excellent water resistance and durability.

### use **AMP** as a chemical intermediate

AMP forms substituted amides with esters, anhydrides, and acyl halides. AMP also reacts with alkyl halides, aldehydes, ketones, carbon disulfide, and many other compounds. These reactions suggest the use of AMP in the synthesis of surface-active agents, detergents, and vulcanization accelerators for rubber.

#### PHYSICAL PROPERTIES

Molecular Weight	89.14
Boiling Point, at 760mm	165°C
Melting Point	30-31°C
Specific Gravity at 20/20°C	0.934
pH of 0.1M Aqueous Solution at 20°C	11.3
Solubility	Miscible with water, aromatic hydrocarbons, alcohols, esters. Insoluble in aliphatic hydrocarbons.

#### SPECIFICATIONS

Neutral Equiv.	88.5-91.0
Color, APHA, max.	20
Water, by wt., max.	0.8%
Distill. Range	156°C-177°C
Below 161°C, max.	10%
Above 168°C, max.	5%
Odor	Characteristic
Non-volatile matter by weight, max.	0.005%

#### OTHER AMINOHYDROXY COMPOUNDS

AMPD (2-Amino-2-methyl-1, 3-propanediol)  
 $\text{CH}_2\text{OHC}(\text{CH}_3)_2\text{NHCH}_2\text{OH}$

AEPD (2-Amino-2-ethyl-1, 3-propanediol)  
 $\text{CH}_2\text{OHC}(\text{C}_2\text{H}_5)_2\text{NHCH}_2\text{OH}$

TRIS AMINO (Tris [hydroxymethyl] aminomethane)  $(\text{CH}_2\text{OH})_3\text{CNH}_2$

AB (2-Amino-1-butanol)  
 $\text{CH}_3\text{CH}_2\text{CHNH}_2\text{CH}_2\text{OH}$

AMP is another important chemical derived from CSC's Nitroparaffins. For samples and additional information write to:

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IN CANADA: Reliance Chemicals, Ltd., Montreal. IN MEXICO: Consolmex, S.A., Mexico 11, D. F.



INDUSTRIAL  
CHEMICALS

1956 BLUE BOOK



## NAPHTHENIC ACIDS (Contd.)

E. I. du Pont de Nemours & Co., Wilmington  
Enjay Co., 15 W. 51st St., N. Y. 19  
General Petroleum Corp., 108 W. 2nd St., Los Angeles  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
Indianapolis  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis  
Naftone, Inc., 515 Madison Ave., N. Y. 2  
Ohio Solvents & Chemicals Corp., 3470 W. 140th St.,  
Cleveland  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pennsylvania Refining Co., Butler, Pa.  
Sherwood Refining Co., Englewood, N. J.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
Grand Rapids, Mich.

## NICOTINE COMPOUNDS

Aceto Chem. Co., 40 Lawrence St., Flushing, N. Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Hood River Spray Co., Hood River, Ore.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Sanocide Spray Co., Fenville, Mich.

## NITRE CAKE (Sodium Acid Sulfate)

Amer. Agricultural Chem. Co., 50 Church St., N. Y.  
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia  
Monsanto Chemical Co., 1724 S. 2nd St., St. Louis  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17

## NITRIC ACID (see Acids)

## NITROPARAFFINS

Commercial Solvents Corp., 260 Madison Ave., N. Y. 16

## NONYL PHENOL

Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Stepan Chem. Co., 20 N. Wacker Dr., Chicago

## NOVELTY SOAPS

Armour & Co., 1355 W. 31st St., Chicago  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
8  
Duveen Soap Corp., 36-14 35th St., Long Island City 6,  
N. Y.  
Hewitt Soap Co., Dayton, O.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Mem Co., 67 Irving Pl., N. Y. 3  
Original Bradford Soap Wks., West Warwick, R. I.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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Bete Fog Nozzle Co., Greenfield, Mass.  
Monarch Mfg. Works, 3406 Miller St., Phila.  
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.  
Z & W Mach. Prods., Inc., 30240 Lakeland Blvd., Wick-  
liffe, O.

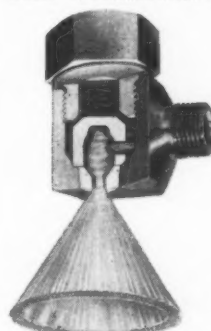
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## for SPRAY NOZZLES

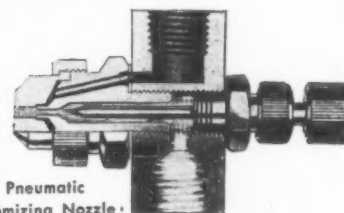
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3/8 BBSCT



Pneumatic  
Atomizing Nozzle

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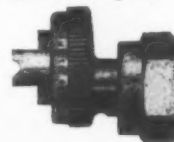
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Michael Hassel, 75 West St., N. Y.  
Internatio-Rotterdam, Inc., 61 Broadway, N. Y. 6  
Murray Oil Prods. Co., 21 West St., N. Y.  
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G. A. Wharry & Co., 125 Broad St., N. Y.

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(see also Brokers and Dealers)

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T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Eastern Industries, Inc., Ridgefield, N. J.  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Leghorn Trading Co., 141 E. 44th St., N. Y.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Sergeant Chem. Co., 7 Dey St., N. Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

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Carlisle Chemical Works, Reading, O.  
Ciba Co., 627 Greenwich St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington  
Fiber Chem. Corp., P. O. Box 218, Matawan, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y.  
Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati 13  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Stanalchem Inc., 350 Madison Ave., N. Y. 17

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Paradichlorobenzene)**

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Wks., St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6

**PACKAGING (for the Trade)**

A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Aerosol Techniques, Inc., 111 Silliman Ave., Bridgeport, Conn.  
Armstrong Laboratories, 421 LaGrange St., Boston  
Associated Sales & Supply Co., 1896 Dennison St., Oakland, Calif.

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## HILTAMINE ARCTIC WHITE N

... for wool, nylon, orlon and acetate

## HILTAMINE ARCTIC WHITE BPS

... for cotton and rayon

and especially for textile processing ...

## SAFARITONE WHITE WNOA

... for wool, nylon, orlon and acetate

## SAFARITONE WHITE C

... for cotton and rayon

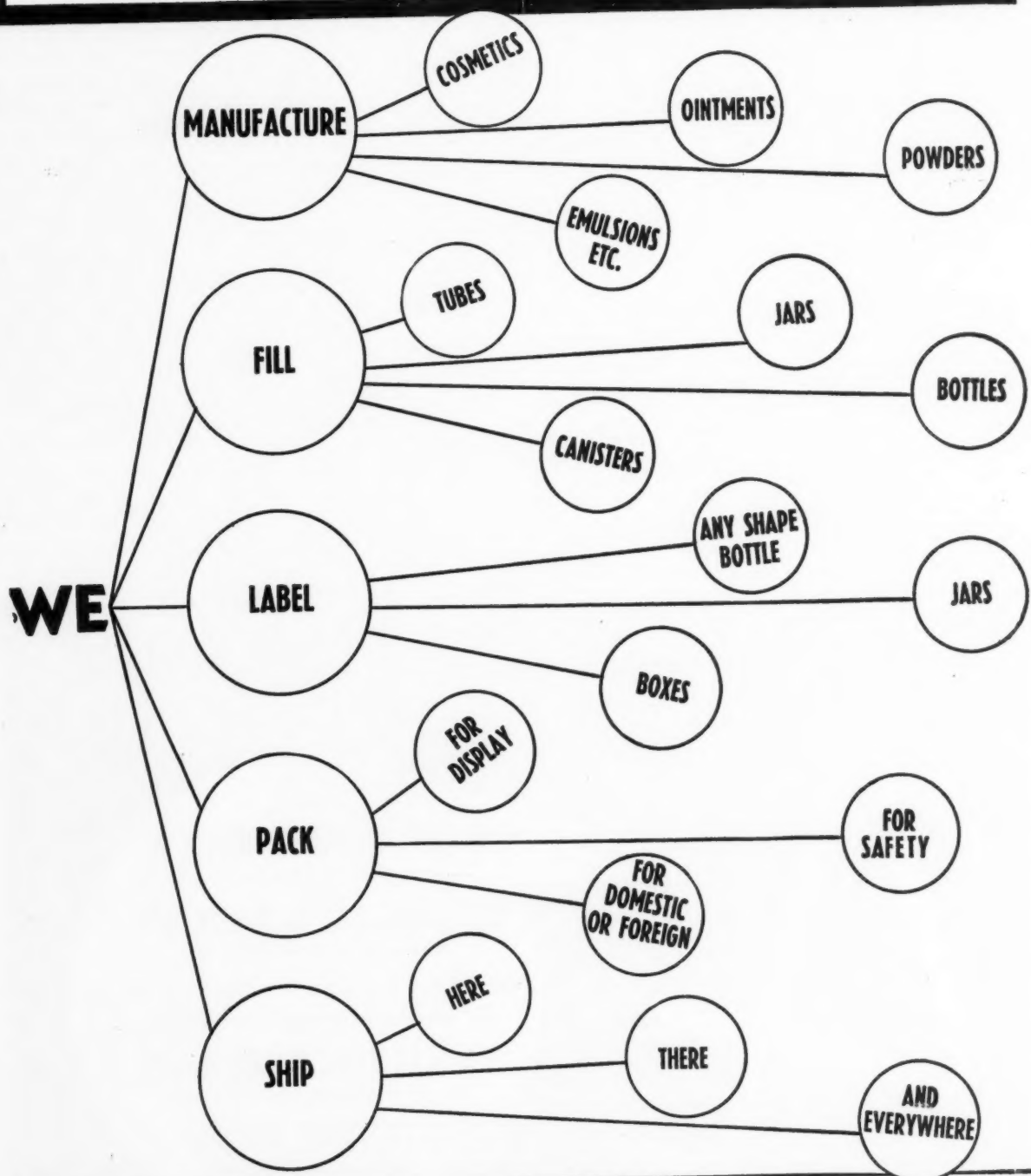
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**HILTON-DAVIS CHEMICAL CO. DIV.**

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## R. GESELL, INCORPORATED

Manufacturing Chemists  
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## CUSTOM MANUFACTURING AND COMPOUNDING

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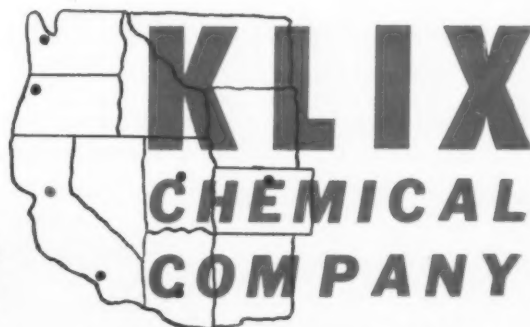
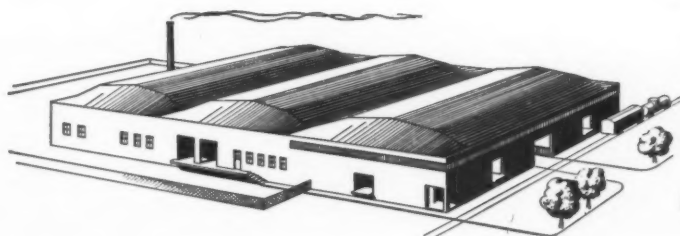
- **FORMULATING** to your specifications or ours, using quality raw materials.
- **PERSONALIZED** service with individual employee pride in quality.
- **FINISHED PRODUCTS** of top quality, leading to repeat orders.
- **GEOGRAPHICALLY** located to best serve the West.
- **ALL TRANSACTIONS** held in the strictest confidence.
- **OUR ORGANIZATION** will bear your most thorough investigation as to financial responsibility, service and dependability.

### WE SELL TO JOBBERS---SOAPS,

Disinfectants, Deodorants, Detergents, Industrial Cleaners.

*Your inquiry is invited.*

We believe we are in the fortunate position of being a company *small enough* to be flexible and give you very close personal attention . . . large enough to obtain low costs through volume purchasing, and to have efficient controlled production.



551 RAILROAD AVE., S. SAN FRANCISCO, CALIF.  
"Serving the Eleven Western States"



... in the very heart of the market center of America—an area within 500 miles of Cleveland  
 ... with a population of 81,000,000 people ... earning 74% of the nation's payroll dollars.

## COMPLETE **CONTRACT PACKAGING** FACILITIES ready TO SERVE YOUR PACKAGING NEEDS

Whatever your packaging requirements, we can be of service to you . . .

- Centralized packaging to reduce freight costs on distribution to eastern and mid-western markets.
- Packaging for special promotions or sampling.
- Packaging for peak-season requirements.
- Packaging to provide a second source of supply.
- Pilot-line packaging tests.
- Taking over your entire packaging and distribution operations to relieve you of excessive packaging and transportation costs.

Since 1934 we've specialized in contract packaging and we are providing efficient, economical custom packaging service for scores of companies, large and small. Our personnel is fully experienced in all types of packaging. Our compounding and packaging equipment is modern, high speed and efficient. We have a new, modern plant with complete warehousing and shipping facilities. We are meticulous with inventory records and insurance coverage on client's goods.

We'd be more than happy to discuss your packaging requirements and submit an estimate in the form of a unit price—each package complete, packed and ready for shipment. Your inquiry is cordially invited.

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 BOX 1076, STATION "A", CLEVELAND 2, OHIO

Packagers of automotive and household chemical-specialties and insecticides. Assemblers of hardware and industrial parts.

Packaging in bottles, metal or fibre cans, bags, envelopes, tubes—sizes from a fraction of an ounce to 5 gal. or several pounds.

## PACKAGING FOR THE TRADE (Contd.)

G. Barr & Co., 3601 S. Racine Ave., Chicago  
 Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
 Captiol Packaging Co., 1441 Circle Ave., Forest Park, Ill.  
 Chemical Enterprises, 1131 W. Devon Ave., Chicago 40  
 Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J.  
 Commercial Cleanser Co., 2924 Armitage Ave., Chicago  
 Connecticut Chem. Research Corp., Bridgeport, Conn.  
 Continental Filling Corp., Danville, Ill.  
 Curley Co., Inc., 1432 N. Randolph St., Phila. 22  
 Douglas Chem. Co., 620 E. 16 Ave., North Kan. City, Mo.  
 Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.  
 Gaylord Chem. Co., 701 Woodswether Rd., Kansas City, Mo.  
 R. Gesell, Inc., 200 W. Houston St., N. Y.  
 R. Hurwich Co., 1043 Hearst Ave., Berkeley, Calif.  
 Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
 Kan-Jax Co., 2500 Summit, Kansas City, Mo.  
 Klux Chemical Co., 551 Railroad Ave., South San Francisco, Calif.  
 Lawson Chem. Prods. Co., 5364 Selmarine Dr., Culver City, Calif.  
 Manufacturers Aid Co., 315 34th St., Union City, N. J.  
 McGuire & Co., 833-47th Ave., Oakland, Calif.  
 Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.  
 Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
 Paket, Inc., 9022 S. Baltimore St., Chicago  
 Peterson Filling & Packg. Corp., Danville, Ill.  
 J. L. Prescott Co., 27 8th St., Passaic, N. J.  
 Private Brands, Inc., 300 S. 3rd St., Kansas City 18, Kan.  
 Products Packaging, Inc., 6400 Herman Ave., Cleveland 2  
 Reilly Chem. Co., Industrial Prods. Div., P.O. Box 98, New Orleans  
 Gene Rose Co., Inc., 1637 S. Kilbourn, Chicago  
 Scotch Prods. Corp., 2710 Detroit Ave., Cleveland 13  
 John C. Stalfort & Sons, 319 W. Pratt, Baltimore  
 Stevens Wiley Mfg. Co., 1601 W. Glenwood Ave., Phila.  
 Trio Chemical Wks., 341 Scholes St., Bklyn. 6  
 Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27  
 Western Filling Corp., 4151 Bandini Blvd., Los Angeles 23  
 Van Pell Chem. & Supply Corp., 48 E. First St., N. Y.  
 Warsaw Chemical Co., Warsaw, Ind.  
 Waverly Mfg. Co., 1825 Wylie St., Phila.

## PACKAGE PRINTERS AND DESIGNERS

American Can Co., 100 Park Ave., N. Y. 17  
 American Colortype Co., 1151 Roscoe St., Chicago  
 Container Corp. of America, 38 S. Dearborn St., Chicago  
 Continental Can Co., 100 E. 42 St., N. Y. 17  
 Crown Can Co., Erie Ave. and H. St., Phila.  
 Robert Gair Co., 155 E. 44 St., N. Y.  
 Lehmann Printing & Lithographing Co., 300 2 St., San Francisco  
 W. C. Ritchie & Co., 8800 S. Baltimore Ave., Chicago  
 Schmidt Lithograph Co., 462 Second St., San Francisco  
 U. S. Printing & Lithograph Co., Beech St., Cincinnati

## PACKAGING MACHINERY (see Cartoning Machy., Filling Machy., Weighing Equip., Wrapping Machy.)

### PAILS, METAL (Shipping Containers)

American Can Co., 100 Park Ave., N. Y.  
 Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
 Bennett Industries, Peotone, Ill.  
 Central Can Co., 2415 W. 19th St., Chicago  
 Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.  
 Continental Can Co., 100 E. 42nd St., N. Y.  
 Eastern Can Co., Keap St. & Kent Ave., Bklyn.  
 Fein's Tin Can Co., Bush Terminal, Brooklyn  
 Geuder, Paeschke & Frey Co., Milwaukee  
 Inland Steel Container Co., 6532 S. Menard Ave., Chicago  
 Jones & Laughlin Steel Corp., Pittsburgh 30  
 National Can Corp., 3217 W. 47th Pl., Chicago 32  
 National Steel Barrel Co., 3860 E. 91st St., Cleveland  
 Pressed Steel Tank Co., 5717 Greenfield Ave., Milwaukee  
 Rheem Mfg. Co., 7600 S. Kedzie Ave., Chicago  
 Stern Can Co., 71 Locust St., Boston 25



**All styles of steel  
 pails and drums  
 Sizes 1-1½-2-2½-3-3½  
 4-5-6-6½-10-12 gallons**



### Available with all types Nozzles and Pouring Spouts

Vulcan makes the finest open head steel pails and closed head drums in the above sizes . . . Every pail thoroughly tested . . . All meet rigid I.C.C. specifications.

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Vulcan chemists will work with you to develop a Hi-Bake protective interior lining to meet your specifications and packaging problems . . . Your assurance of "positive product protection." Complete facilities available to design and lithograph your Brand Name on any size or style container.

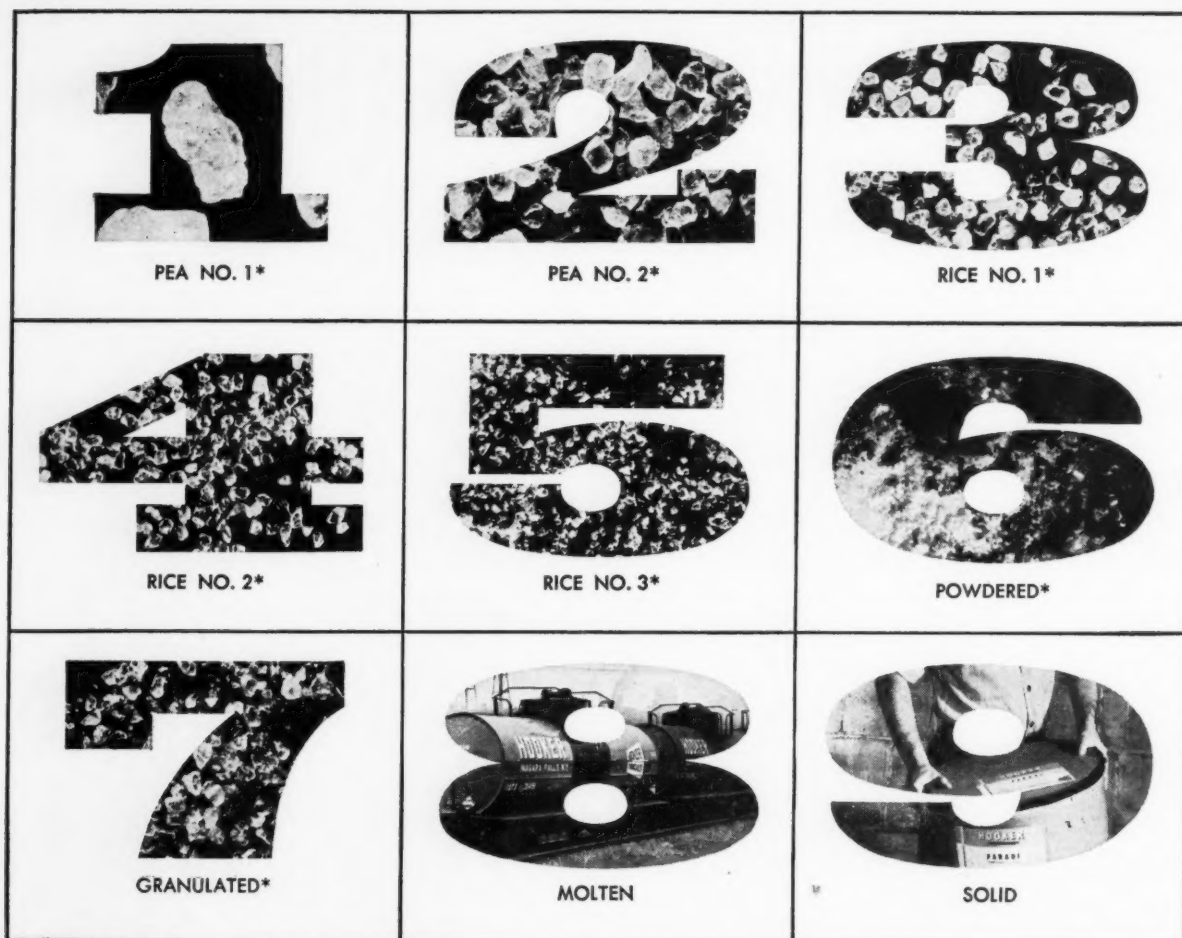
**If we don't have what you want—we'll design it!**

**Call or write today for samples and more information.**

**OVER 40 YEARS CONTAINER EXPERIENCE**

**VULCAN  
 CONTAINERS INC.**

Bellwood, Illinois (Chicago Suburb) Phone: Linden 4-5000  
 In Toronto, Canada—Vulcan Containers Limited.  
 Representatives in all Principal Cities



\*Actual Size

## 9 ways to make money with paradichlorobenzene

Going to market this year with a line of paradichlorobenzene products?

We'd like to help you do it, successfully.

How? By furnishing any of the sizes you need, economically from *one* source.

You can get PARADI® (100% pure Hooker paradichlorobenzene) to match all these requirements:

**Repackaging** The three sizes in the top row, above, offer you a ready-made, balanced "line." These uniform, sparkling crystals sublime completely, without stain or residue.

**Molding or compressing** The *next* three sizes above will give you a firm, dry block or pellet of exceptional brilliance. *Rice No. 2* flows very freely, so is ideal for automatic presses where

dies must be refilled rapidly. *Rice No. 3*, slightly smaller, is sized especially for foot-operated presses. It's free-flowing, yet packs with very little effort. And if you melt-and-mold, consider *Powdered*—a fine, fast-melting size that's easily colored and perfumed.

**Agricultural selling** You'll find *Granulated* a handy bulk-package size. It's often recommended for broadcasting as a weed-killer, and in control of certain insects and fungi.

**Molten—and solid, too** Do you

use 50 or more tons per month? You may save by grinding and screening PARADI yourself. You can buy *molten* PARADI for this purpose, in tank cars—or *solid* PARADI, cast into drums.

Screened sizes are packed in fiber drums—25, 50, 100 or 200 lbs. net.

See for yourself how PARADI helps you put maximum sales appeal into your product, and lightens your processing or repackaging job. Write today on your business letterhead for literature and samples of the sizes that match your needs.

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## PAILS, METAL (Contd.)

U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20  
Vulcan Containers Ltd., Box 284, Toronto, Can.  
Vulcan Steel Container Co., 3315 N. 35th Ave.,  
Birmingham, Ala.  
Vulcan Containers Inc., Bellwood, Ill.  
Wheeling Corrugating Co., Wheeling, W. Va.

## PAILS (Wooden)

Beaver Mills, Keene, N. H.  
Eagle Woodenware Mfg. Co., Hamilton, O.  
Gambrinus Cooperage Works, Louisville  
Impervious Package Co., Keene, N. H.  
Menasha Woodenware Co., Menasha, Wis.  
Richmond Cedar Works, Richmond, Va.  
White Mop Wringer Co., Fultonville, N. Y.

## PALM KERNEL OIL

(see also Brokers and Dealers)

Balfour Guthrie & Co., 67 Wall St., N. Y.  
Irving R. Boody & Co., 120 Wall St., N. Y.  
Leghorn Trading Corp., 141 E. 44th St., N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N.Y.  
Smith-Weihman Co., 15 Moore St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## PALM OIL

Balfour Guthrie & Co., 67 Wall St., N. Y.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Eastern Industries, Ridgely, N. J.  
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave.,  
N. Y. 17  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Stein, Hall & Co., 285 Madison Ave., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

## PALM OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
Armour Chemical Div., 1355 W. 31 St., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Emery Industries, 4300 Carew Tower, Cincinnati  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 17

## PAPER CUPS

American Paper Goods Co., Kensington, Conn.  
Champion Container Co., Philadelphia  
Dixie Cup Co., Easton, Pa.  
Herz Mfg. Corp., 840 E. 134 St., New York  
Lily-Tulip Cup Corp., 122 E. 42 St., New York  
Sealright Co., Fulton, N. Y.  
Solo Cup Co., 7415 S. East End Ave., Chicago  
Sutherland Paper Co., Kalamazoo, Mich.

## PAPER TOWELS (see Towels, Paper)

## PARA BLOCKS (see Deodorizing Blocks)

## PARADICHLOROBENZENE

Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Dover Chem. Co., Dover, O.  
Dow Chemical Co., Midland, Mich.

1956 BLUE BOOK

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For **STEEL PAILS**  
and **DRUMS**

Bennett manufactures a complete line of steel pails including open head pails from 2-½ to 6-½ gallons size, all types of pour pails, and dome top utility cans, lithographed in your trade colors or in solid colors.



Bennett manufactures lined steel pails and drums to safely contain "hard-to-hold" products. Send for Bennett's new Hi-Bake folder that explains how Bennett's sample testing service can help you.



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**FOR SOAP MAKING • SPECIAL MIXTURES • REPACKING**

## CAUSTIC SODA

Liquid.....50% and 73% NaOH  
Solid.....76% Na<sub>2</sub>O  
Flake.....76% Na<sub>2</sub>O, Fine and Medium

Columbia-Southern Caustic Soda is especially desirable for the manufacture of soap because of its freedom from impurities and metallic contamination. Liquid grades are shipped in special tank cars which first made practical the shipment of 73% Caustic Liquor in its purest form. Insulation effectively prevents crystallization and the patented lining prevents metallic contamination in transit.

Other grades test 98-100% Sodium Hydroxide (NaOH), equivalent to 76% Na<sub>2</sub>O. Flake Caustic Soda is prepared in two grades of fine and medium sized flakes, free of dust. The finer grade is especially suitable for repacking for household use.

## CAUSTIC POTASH

Furnished in standard grade of Solid and Flake, and as 50% concentration in Liquid.

Columbia-Southern Caustic Potash is another product of high quality and purity that soap-makers find excellent for use in liquid soap and soft soap manufacture.

## SODA ASH—LIGHT AND DENSE

The original Columbia-Southern chemical. Over a half-century's experience in the manufacture of this essential chemical for soap makers has enabled Columbia-Southern to develop techniques and controls that assure uniform density and regularity of physical form and purity.

## PACIFIC CRYSTALS

Pacific Crystals are a true sodium sesqui-carbonate—unmodified by mechanical mixing—of a tabular, crystalline structure and fine particle size. They are non-irritating, free-flowing, non-caking. They mix readily with dry materials and dissolve quickly in water.

The gentle, safe action of Pacific Crystals has made it

widely accepted by repackers and compounders for many uses such as soap extenders, water softeners, laundry-textile-dairy-tanner's sodas, dishwashing compounds, silk degummers, general cleaning compounds. Pacific Crystals can be used directly in the crutcher in the manufacture of soap builders. Packed in 100 lb. paper bags.

## PARA-DICHLOROBENZENE

Columbia-Southern Para-Dichlorobenzene sublimes readily leaving no residue, is soluble in most organic solvents but is insoluble in water. Available in a variety of mesh sizes to meet the needs of the soap industry in the manufacture of sanitary specialties and deodorants. Shipped in fiber drums, 200, 100, 50 and 25 lbs. net.

## ORTHO-DICHLOROBENZENE

Columbia-Southern Ortho-Dichlorobenzene is a clear, colorless to slightly yellow liquid with a pungent but not unpleasant odor. It is readily soluble in most organic solvents, but is insoluble in water. Used in the preparation of special cleaning agents and for various degreasing compounds. Shipped in 55 gallon drums and 8,000 gallon tank cars.

## PHOSFLAKE

Phosflake is a uniform blend of Caustic Soda and Tri-Sodium Phosphate, prepared in convenient flake form. Especially adapted to machine bottle washing—quick acting, easy to handle (minimizes dust particles that irritate the skin and throat of the operator), superior in sterilizing and rinsing properties.

## MODIFIED SODAS

Mixtures of Sodium Carbonate and Sodium Bicarbonate. Especially useful in cleansing operations requiring a mild alkaline detergent-aid. Manufactured in three grades—No. 100, No. 200 and No. 300—with different degrees of alkalinity.

**TECHNICAL SERVICE** Columbia-Southern's Technical Service is available for developing the most advantageous uses of these or other Columbia-Southern products in your processes.

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## PARADICHLOROBENZENE (Contd.)

E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Standard Naphthalene Prods. Co., S. Kearny, N. J.

## PARAFFIN

Amsco Solvents & Chemicals Co., 4619 Reading Rd., Cincinnati  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Buffalo Solvents & Chemicals Co., Box 73, Station B, Buffalo, N. Y.  
Candy & Co., 2015 W. 35th St., Chicago 32  
Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago  
Cornelius Wax Refining, Div. G. S. Ziegler & Co., 99 Church St., N. Y. 7  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Esso Standard Oil Co., 15 W. 51 St., N. Y. 19  
Gulf Refining Co., Pittsburgh  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis  
International Wax Refining Corp., E. Hawthorne Ave., Valley Stream, N. Y.  
Mercantile Wax, Div. of Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis  
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.  
Shell Oil Co., 50 W. 50 St., N. Y. 20  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630-5th Ave., N. Y.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Southern Solvents & Chemical Corp., 1354 Jefferson Highway, New Orleans  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Texas Co., 135 E. 42nd St., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St., Houston  
Warwick Wax Co., Inc., 10th St. & 44th Ave., Long Island City, N. Y.  
Wax Corp. of America, 21-29 Dunham Pl., Bklyn.  
Wax & Kosin Prods., 42 Broadway, N. Y.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids, Mich.

## PARAFFIN OILS

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Esso Standard Oil Co., 15 W. 51 St., N. Y. 19  
Gulf Refining Co., Pittsburgh  
International Wax Ref. Corp., Valley Stream, N. Y.  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630-5th Ave., N. Y.

Skelly Oil Co., Skelly Bldg., Kansas City, Mo.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Warwick Wax Co., Inc., 10th St. & 44th Ave., Long Island City, N. Y.

## PARIS GREEN

Dow Chemical Co., Midland, Mich.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Robeco Chemicals, Inc., 23 E. 26 St., N. Y.  
George F. Smith, 60 E. 42 St., N. Y. 17

## PARATHION

Eston Chemicals Div., American Potash & Chemical Corp., 3100 E. 26 St., Los Angeles  
General Chemical Division, Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Monsanto Chemical Co., St. Louis  
John Powell Co., Division of Olin Mathieson Chemical Corp., Baltimore  
Stauffer Chemical Co., 420 Lexington Ave., N. Y.  
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City, Kan.

## PASTES (see Adhesives)

## PATCHOULI OIL (see Essential Oils)

## PEANUT OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
Eastern Industries, Inc., Ridgefield, N. J.  
Falk & Co., Pittsburgh 30  
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.  
Spencer Kellogg & Sons, Buffalo, N. Y.  
Leghorn Trading Co., 141 E. 44th St., N. Y.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
Pierce Oil Prods. Co., East Rochester, N. Y.  
J. H. Reading, Inc., 17 Battery Place, N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Sergeant Chem. Co., 7 Dey St., N. Y.  
Southern Cotton Oil Co., Produce Exchange, N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## PEANUT FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.  
Darling & Co., 4201 S. Ashland Ave., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Jos. Turner & Co., Ridgefield, N. J.  
Vegetable Oil Prods. Co., 5636 E. 61st St., Los Angeles  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

## PEARL ASH (see Potassium Carbonate)

## PENNROYAL OIL (see Essential Oils)

## PENTACHLOROPHENOL

California Spray-Chemical Corp., Richmond, Va.  
Dow Chemical Co., Midland, Mich.  
Geigy Chemical Corp., 89 Barclay St., N. Y.  
Hercules Powder Co., 961 Market St., Wilmington  
Monsanto Chem. Co., St. Louis  
Neville Chemical Co., Pittsburgh 25  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Ohio Solvents & Chem. Co., 3470 W. 140 St., Cleveland



#### PENTACHLOROPHENOL (Contd.)

Reilly Tar & Chemical Corp., Merchants Bank Bldg., Indianapolis, Ind.  
Texas Solvents & Chem. Co., 8501 Market, Houston  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

#### PERFUME DISSEMINATORS

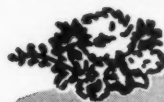
Associated Prods. Co., Bakerstown, Pa.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Keystone Scent Conditioner Corp., 315 N. 12th St., Phila.  
Robinson Clay Prod. Co., 101 Park Ave., N. Y.  
Scent-Flo. Dist. Co., 7227 Hamilton Ave., Pittsburgh 8  
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
Universal Electric Products, 2201 Regent St., Madison 5, Wisc.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
Williams Chem. Co., 487 Broadway, N. Y. 13

#### PEPPERMINT OIL (see Essentials Oils)

#### PERFUMING COMPOUNDS

Alfa Essential Oil Co., 6 Varick St., N. Y.  
American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
American-British Chem. Supplies, 180 Madison Ave., N. Y. 16  
Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Berje Chem. Prod. Co., 359 W. Broadway, N. Y.  
Charabot & Co., 114 E. 25th St., N. Y.  
Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.  
Antoine Chiris Co., 212 E. 23rd St., N. Y.  
Gerard J. Danco, Inc., 5 E. 19th St., N. Y. C.  
De Laire, Inc., 114 E. 32nd St., N. Y.  
Descollonges, Inc., 160 5th Ave., N. Y. 10  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
Eastman Chemical Prods. Co., Kingsport, Tenn.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.  
Fine Chems. Div., Shulton, Inc., 630 5th Ave., N. Y.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Fleuroma, Inc., 38 W. 21st St., N. Y. 10  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Fries & Fries, Inc., 110 E. 70th St., Cincinnati  
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
Heine & Co., 601 W. 26 St., N. Y. 1  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Lautier Fils, 321 Fifth Ave., N. Y.  
Samuel Klein, 4 Hanover Sq., N. Y. 14  
Pierre Lemoine, 67 Cortlandt St., N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y.  
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.  
N. Y. Aromatics Corp., Highbridge, N. J.  
Newman Buslee Wolfe, 5800 Northwest Highway, Chicago  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y.  
Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.  
Polak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.  
Polak & Schwarz, Inc., 667 Washington St., N. Y.  
Polarome Co., 73 Sullivan St., N. Y. C.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
Rhodia, Inc., 230 Park Ave., N. Y.  
F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39  
Roubechez, Inc., 8 E. 12th St., N. Y. 3  
Roure-Dupont, Inc., 366 Madison Ave., N. Y.  
H. C. Ryland, Inc., 161 Water St., N. Y.

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Seeley & Co., Nyack, N. Y.  
Synfleur Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tombarel Products Corp., 725 Broadway, N. Y. 3  
Ungerer & Co., 161 Avenue of Americas, N. Y.  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.  
Van Dyk & Co., Belleville, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

#### **PETIT GRAIN OIL (see Essential Oils)**

#### **PETROLATUM (Petroleum Jelly)**

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22  
Mercantile Wax Div., 595 Madison Ave., N. Y.  
Pennotex Oil Corp., 29 Broadway, N. Y. 6  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Sherwood Refining Co., Englewood, N. J.  
Sinclair Refining Co., 630 Fifth Ave., N. Y.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (N. J.), 26 Broadway, N. Y.  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### **PETROLEUM BASE OILS (see Insecticide Base Oils)**

#### **PETROLEUM SULFONATES**

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Continental Oil Co., 630 5th Ave., N. Y. 30  
Emulsol Chemical Corp., 59 E. Madison St., Chicago 3  
Enjay Co., 15 W. 51st St., N. Y.  
General Petroleum Corp., 108 W. 2nd St., Los Angeles  
Indoil Chemical Co., 910 S. Michigan Ave., Chicago 80  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pennotex Oil Corp., 29 Broadway, N. Y. C.  
Pennsylvania Refining Co., Butler, Pa.  
Pilot Chem. Co., 215 W. 7th St., Los Angeles-14  
L. Sonneborn Sons, 300 4th Ave., N. Y.

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Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y. 17  
Dow Chemical Co., Midland, Mich.  
Hercules Powder Co., 961 Market St., Wilmington  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Oronite Chem. Co., 200 Bush St., San Francisco  
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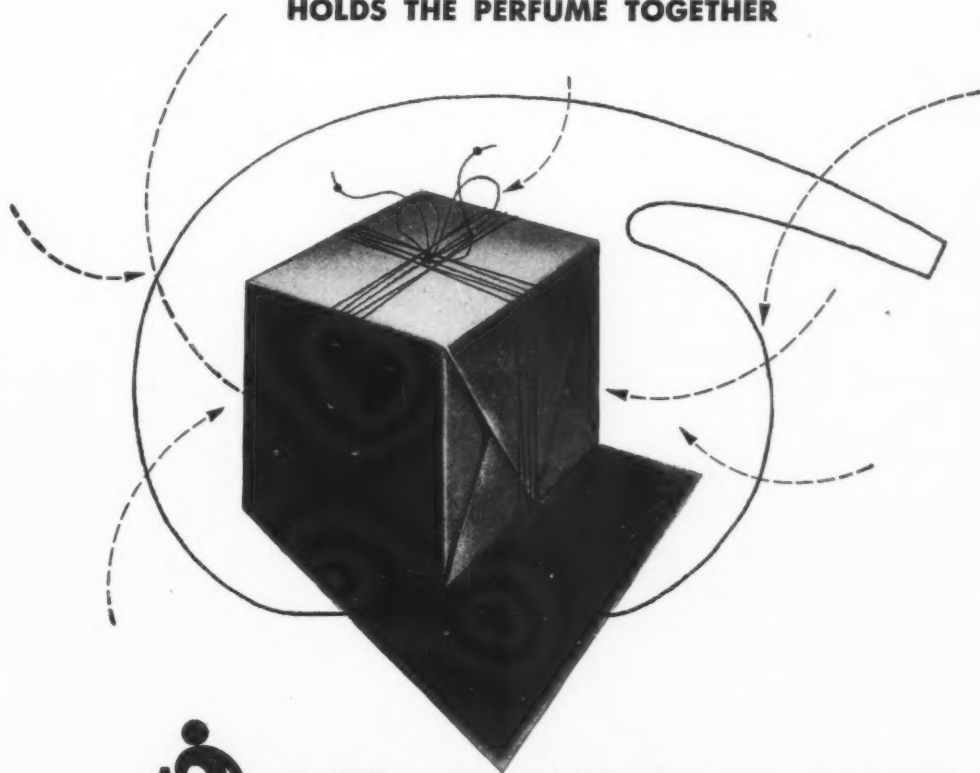
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Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Buffalo Solvents & Chem. Corp., P. O. #73, Sta. B, Buffalo  
Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago  
Continental Turp. & Rosin Corp., Laurel, Miss.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dixie Pine Prods. Co., Hattiesburg, Miss.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Glidden Co., Naval Stores Div., P. O. 389, Jacksonville, Fla.  
Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
Newport Industries, Inc., 230 Park Ave., N. Y.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Phoenix Naval Stores Co., Gulfport, Miss.  
Taylor, Lowenstein & Co., Mobile, Ala.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Wisconsin Solvents & Chem. Corp., 1719 S. 83 St., Milwaukee  
Welch, Holme & Clark Co., 349 West St., N. Y.  
Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

## PINE OIL DISINFECTANTS (see Disinfectants, Pine Oil)

## PINE NEEDLE OIL (see Essential Oils)

## PINE SCRUB SOAPS (see Floor Scrub Soaps)

## PIPE COILS

Brighton Copper Works, Cincinnati  
Harrisburg Steel Corp., Harrisburg, Pa.  
Hartford Tube Products Co., Hartford, Conn.  
Houchin Machinery Co., Hawthorne, N. J.  
National Pipe Bending Co., New Haven, Conn.  
Philadelphia Pipe Bending Co., 4100 N. 5th St., Phila.  
Pittsburgh Pipe Coil & Bending Co., Etna, Pa.  
Rempe Co., 340 N. Sacramento Blvd., Chicago  
Whitlock Coil Pipe Co., Hartford, Conn.

## PIPERONYL BUTOXIDE

Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore

## PIPERONYL CYCLONENE

Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore

## PIVAL AND PIVALYN

Motomeco, Inc., Clark, N. J.

## PIVAL AND PIVALYN FORMULATIONS

Adams Chem. Co., 4905 5th Ave., South, Minneapolis  
Donco, Inc., 1150 W. Hampden, Englewood, Colo.  
McLaughlin Gormley King Co., 1715 5th St., SE, Minneapolis  
Private Brands, Inc., 300 S. 3 St., Kansas City, Kansas  
Winru Chemical & Sales Co., 925 State Line Ave., Kansas City, Mo.

## PLASTIC BOTTLES (see Bottles, Plastic)

## PLASTIC DIP TUBES (see Aerosol Dip Tubes)

## PLODDERS (see Soap Machinery)

## POISONED SEEDS (Poison Grain)

Exterminating Materials Co., 555 W. 22nd St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.  
Hysan Products Co., 932 W. 38th Place, Chicago

D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
O. E. Linck Co., 51 James St., Montclair, N. J.  
Sennewald Drug Co., 2723 Chouteau Ave., St. Louis  
W. R. Sweeney, Salisbury, Mo.

## POLISHES, FURNITURE, AUTO, ETC.

Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Analab Labs., 285 Franklin St., Boston 10  
Antiseptol Co., 5524 Northwest Highway, Chicago  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chemical Prod. Corp., 9 Calumet St., Newark, N. J.  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Bilco Chemical Co., 607 DeGraw St., Bklyn.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553—63rd St., Bklyn. 19  
Buckingham Wax Corp., Borden Ave. and Van Dam St., L. I. City, N. Y.  
Candy & Co., 2515 W. 35th St., Chicago  
Cary Mfg. Co., 2910 "J" Ave., National City, Calif.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Davies-Young Soap Co., Dayton, O.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Federal Varnish Division, S. Ashland Ave. at 29th St., Chicago  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Franklin Research Co., 5134 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Gulf Oil Corp., Pittsburgh 30, Pa.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
Higley Chemical Co., Dubuque, Iowa  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Place, Chicago  
S. C. Johnson & Son, Racine, Wisc.  
K. B. Chem. Co., Dunnell's Lane, Pawtucket, R. I.  
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Knoxall Corp., 1005 E. Sumner Ave., Indianapolis  
M. & H. Laboratories, 2703-5 Archer Ave., Chicago  
Majestic Wax Co., 1600 Wynkoop St., Denver  
Masury-Young Co., 76 Roland St., Boston  
Midland Labs., Dubuque, Ia.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Oil Specialties & Refining Co., 18 Bridge St., Bklyn.  
Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.  
Parlee Co., 310 E. St. Clair, Indianapolis, Ind.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Puritan Chem. Co., 209 Peters St., S.W., Atlanta  
Quaker Chem. Prods. Co., Conshohocken, Pa.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Sander Chem. Co., 2205 N. American St., Phila. 33  
I. Schneid, Inc., 916 Ashby St., NW, Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
Scranton Chemical Co., 161 Cedar Ave., Scranton, Pa.  
Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
Simoniz Co., 2100 Indiana Ave., Chicago 16  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25  
John C. Stalford & Sons, 319 W. Pratt St., Baltimore  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
H. F. Staples Co., Medford, Mass.  
Surety Laboratories, 3946 Olive St., St. Louis 8  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Twi-Laq Chemical Co., 25 No. Portland Ave., Brooklyn  
Twin City Shellac Co., 340 Flushing Ave., Brooklyn  
Ultra Chemical Works, 2 Wood St., Paterson, N. J.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1003 S. California Ave., Chicago 12  
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Analab Laboratories, 285 Franklin St., Boston 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chemical Prod. Corp., 9 Calumet St., Newark, N. J.  
Bilco Chemical Co., 607 DeGraw St., Brooklyn, N. Y.  
Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Click Chem. Corp., 601 S. Columbus Ave., Mount Vernon, N. Y.  
Davies-Young Soap Co., Dayton, O.  
E. I. du Pont de Nemours & Co., Wilmington  
Eagle Soap Corp., Huntington, Ind.  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Balto.  
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.  
James Good, Inc., 2107 Susquehanna Ave., Phila  
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
M. & H. Laboratories, 2103-5 Archer Ave., Chicago  
New Jersey Chemical Co., 56 Park Ave., Lyndhurst, N. J.  
Noxon, Inc., 812 Jersey Ave., Jersey City, N. J.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Perrow Chemical Co., Hurt, Va.  
Piatt & Smillie Chems., 2322 Olive St., St. Louis 3  
J. L. Prescott Co., 27 8th St., Passaic, N. J.  
Sander Chem. Co., 2205 N. American St., Phila. 83  
Science Industries, 1509 N. Broadway, St. Louis  
Simoniz Co., 2100 Indiana Ave., Chicago 16  
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25  
John C. Stalford & Sons, 319 W. Pratt St., Baltimore  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Surety Laboratories, 3946 Olive St., St. Louis 8  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Uncle Sam Chemical Co., 573 W. 131st St. N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

#### POLISHING CLOTHS (see Wiping Cloths)

#### POLISHING MACHINES (see Floor Machines)

#### POLYETHYLENE

Bakelite Co., Div. Union Carbide & Carbon Corp., 30 E. 42 St., N. Y. 17  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eastman Chem. Prods., Kingsport, Tenn.  
Fine Chemicals Co., 250 W. 57th., N. Y. 19  
Monsanto Chemical Co., Springfield 2, Mass.  
Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

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Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6

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General Aniline & Film Corp., 435 Hudson St., N. Y. 14

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(see also Dealers)

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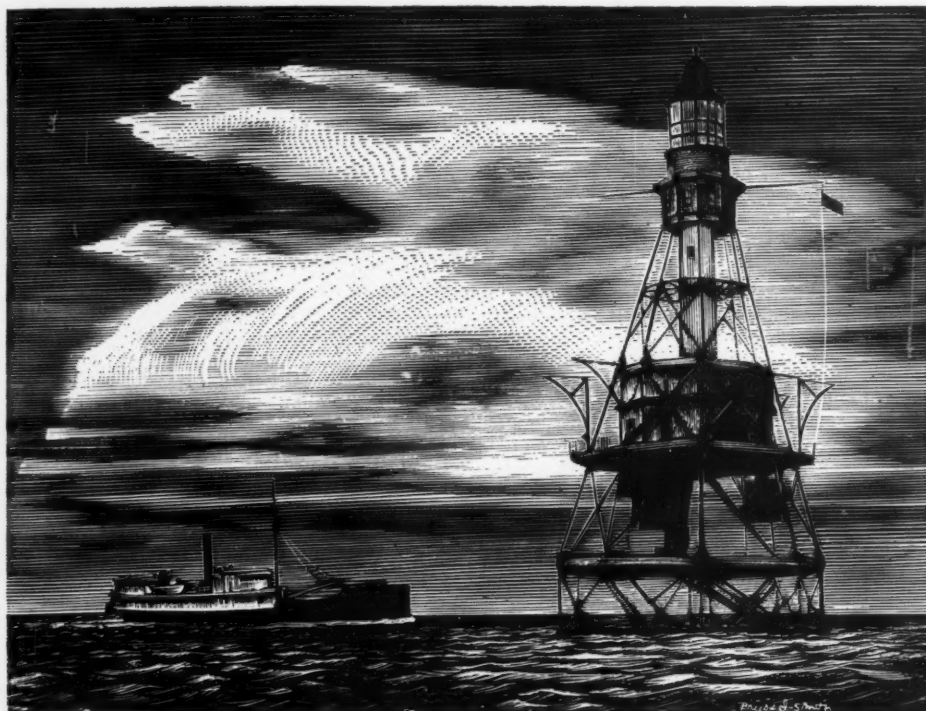
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## POTASH (Contd.)

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 Dow Chem. Co., Midland, Mich.  
 E. I. du Pont de Nemours & Co., Wilmington  
 Hooker Electrochemical Co., Niagara Falls, N. Y.  
 International Minerals & Chemical Corp., 20 N. Wacker Dr., Chicago  
 Niagara Alkali Co., 60 E. 42nd St., N. Y.  
 Olin Mathieson Chem. Corp., Baltimore 3  
 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Jos. Turner & Co., Ridgefield, N. J.  
 Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.

## POTASH SOAPS (Soft Soaps, Liquid Soaps, Shampoo Soaps, etc.)

American Soap & Washoline Co., Cohoes, N. Y.  
 Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
 Analab Labs., 285 Franklin St., Boston 10  
 Antiseptol Co., 5524 Northwest Highway, Chicago  
 Armour Industrial Soap Dept., Chicago 9  
 Baird & McGuire, Inc., Holbrook, Mass.  
 Banner Chemical Products Corp., 9 Calumet St., Newark, N. J.  
 Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
 Boston Chemical Industries, 64 E. Brookline St., Boston  
 Brilco Laboratories, 1553 63rd St., Bklyn. 19  
 Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.  
 Chem. Service Co. of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
 Colgate-Palmolive Co., 300 Park Ave., N. Y.  
 Creco Co., Creco Bldg., L. I. City, N. Y.  
 Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
 Davies-Young Soap Co., Dayton, Ohio  
 Dominion Prods., Inc., 10-40 44 Drive, L. I. C. 1, N. Y.  
 E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
 Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.  
 Eagle Soap Corp., Huntington, Ind.  
 J. Eavenson & sons, Del. & Penn Sts., Camden, N. J.  
 Essential Chemicals, 5906 N. Port Washington Rd., Milwaukee  
 Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 Hewitt Soap Co., Dayton, O.  
 Higley Chemical Co., Dubuque, Iowa  
 Hockwald Chemical Co., 135 Mississippi St., San Francisco  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Products Co., 932 W. 38th Place, Chicago  
 J. Chemical Works, 602 W. 37th St., N. Y.  
 Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
 Knoxall Corp., 1005 E. Sumner Ave., Indianapolis, Ind.  
 Kranich Soap Co., 54 Richards St., Brooklyn  
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
 M. & H. Laboratories, 2705 Archer Ave., Chicago  
 Marman Soap Co., 522 W. Juneau Ave., Milwaukee  
 Midland Labs., Dubuque, Ia.  
 Mione Mfg. Co., Collingdale, Pa.  
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
 National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
 National Soap Co., 357 South 25th St., Tacoma, Wash.  
 Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
 North Coast Chem. & Soap Wks., Seattle, Wash.  
 N. Y. Soap Co., 258 Third St., Brooklyn  
 Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
 Original Bradford Soap Wks., West Warwick, R. I.  
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Piatt & Smillie Chemicals, 2322 Olive St., St. Louis 3  
 Puritan Co., 573 Lyell Ave., Rochester, N. Y.  
 Reilly Chemical Co., Industrial Prods. Div., P. O. Box 98, New Orleans, La.  
 Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.

Sanders Chem. Co., 2205 N. American St., Phila. 33  
 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
 I. Schneid, Inc., 916 Ashby St., NW, Atlanta, Ga.  
 Science Industries, 1509 N. Broadway, St. Louis  
 E. B. Snyder Laboratories, 2137 E. Harold St., Phila. 25  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
 Swift & Co., Chicago 9  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Thompson-Hayward Chemical Co., 2915 S. W. Blvd., Kansas City, Mo.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Wolf Soap Co., 1116 Wyckoff Ave., Bklyn. 27  
 Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## POTASSIUM CARBONATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
 J. T. Baker Chem. Co., Phillipsburg, N. J.  
 E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
 Hooker Electrochemical Co., Niagara Falls, N. Y.  
 International Minerals & Chems. Corp., 20 N. Wacker Dr., Chicago  
 Merck & Co., Rahway, N. J.  
 Niagara Alkali Co., 60 E. 42nd St., N. Y.  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
 Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
 Jos. Turner & Co., Ridgefield, N. J.

## POTASSIUM PERSULFATE

J. T. Baker Chem. Co., Phillipsburg, N. J.  
 Becco Chemical Div., Food Machy. & Chem. Corp., Buffalo 7, N. Y.  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Merck & Co., Rahway, N. J.  
 Penn. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
 Jos. Turner & Co., Ridgefield, N. J.

## POTASSIUM PHOSPHATES

General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Monsanto Chemical Co. St. Louis, Mo.  
 Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
 Westvaco Mineral Prods. Div., Food Mach. & Chem. Corp., 161 E. 42nd St., N. Y. 17

## POTASSIUM SILICATES

E. I. du Pont de Nemours & Co., Wilmington, Del.  
 Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
 Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6  
 Welch, Holme & Clark Co., 439 West St., N. Y.

## POURING SPOUTS (see Can Spouts, Closures)

## POWDERED SOAP (see Soap, Powdered)

## PREMIUMS

Anchor-Hocking Glass Co., Lancaster, O.  
 Charles Brand Novelty Corp., 154 W. 27 St., N. Y. 1  
 Federal Tool Corp., 3600 W. Pratt Blvd., Chicago  
 Goody Mfg. Co., 15 E. 22nd St., N. Y. (novelties)  
 Hazel-Atlas Co., Wheeling, W. Va. (glassware)  
 Holgate Co., Kane, Pa. (woodenware toys)  
 Keystone Processed Prods. Co., 683 Broadway, N. Y.

## PRESSES (Automatic Soap)

Houchin Machinery Co., Hawthorne, N. J.  
 R. A. Jones & Co., P. O. Box 485, Cincinnati 1

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Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)

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Houchin Machinery Co., Hawthorne, N. J.  
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
F. J. Stokes Mach. Co., Philadelphia, Pa.

## PRINTERS (see Package Printers and Designers)

## PRIVATE BRAND FORMULATIONS (see listings under individual headings)

## PRIVATE LABEL PACKAGING, FILLING (see Packaging for the trade)

## PROPELLANTS (see Aerosol Propellants)

## PROTECTIVE HAND CREAMS (see Hand Creams, Protective)

## PUMICE

California Industrial Minerals Co., Friant, Calif.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
LaRue-Axtell Pumice Co., Callaway, Nebr.  
Pacific Coast Pumice Co., Bishop, Calif.  
James J. Rhodes & Co., 157 W. Hubbard St., Chicago  
Wm. R. Rogers, 80 Park St., Beverly, Mass.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Tamms Industries, Inc., 228 N. La Salle St., Chicago  
Charles A. Wagner Co., 813 Callowhill St., Phila.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.

## PYRETHRUM FLOWERS AND POWDER (Insect Powder)

Biddle Sawyer Corp., 20 Vesey St., N. Y. 7  
California Spray-Chemical Corp., Richmond, Calif.  
Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore, Md.  
Greene Trading Co., 60 Wall St., N. Y. (agents for foreign sellers)  
McCormick & Co., Baltimore, Md.  
McLaughlin Gormley, King Co., 1715 Fifth St., S.E., Minneapolis  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., Olin-Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

## PYRETHRUM EXTRACT

Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore, Md.  
Greene Trading Co., 60 Wall St., N. Y. (agents for foreign sellers)  
McCormick & Co., Baltimore  
McLaughlin Gormley, King Co., 1715 Fifth St., S.E., Minneapolis  
S. B. Penick & Co., 50 Church St., N. Y.  
John Powell Div., Olin-Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

## PYROPHYLLITE

Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.  
Glendon Pyrophyllite Co., Greensboro, N. C.  
Minerals & Chems. Corp. of America, Menlo Park, N. J.  
Tamms Industries, Inc., 229 N. La Salle St., Chicago

R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway, N. Y.  
Witco Chemical Co., 12 E. 42 St., N. Y.

## QUATERNARY AMMONIUM COMPOUNDS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Armour Chemical Division, 1355 W. 31st St., Chicago 9  
J. T. Baker Chemical Co., Phillipsburg, N. J.  
Barger Chemicals, Inc., Main Ave., Norwalk, Conn.  
Commercial Solvents Corp., 260 Madison Ave., N. Y. 17  
E. I. du Pont de Nemours & Co., Wilmington  
Emusol Chemical Corp., 59 E. Madison St., Chicago  
Fine Organics, 211 E. 19th St., N. Y. 3  
Geigy Industrial Chem., 89 Barclay St., N. Y. 8  
Merck & Co., Rahway, N. J.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Nopco Chemical Co., First & Essex Sts., Jersey City 2, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.  
Oronite Chem. Co., 200 Bush St., San Francisco  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Rohm & Haas, 222 W. Washington Sq., Phila.  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## QUATERNARY AMMONIUM DISINFECTANTS (See Disinfectants, Quaternary Ammonium)

## RAT EXTERMINATING PRODUCTS

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 18  
California Spray-Chemical Corp., Richmond, Calif.  
Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
Chem. Insecticide Corp., 129 Montague St., Bklyn.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Douglas Chem. Co., 620 E. 16 Ave., North Kansas City, Mo.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Co., 323 W. 16th St., N. Y.  
Exterminating Materials Co., 555 W. 22nd St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Hysan Products Co., 932 W. 38th Place Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Lethelin Products Co., Mt. Vernon, N. Y.  
O. E. Linck Co., 51 James St., Montclair, N. J.  
McLaughlin Gormley King Co., 1715 S.E. 5 St., Minneapolis  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Motomco, Inc., Clark, N. J.  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
S. B. Penick & Co., 50 Church St., N. Y. C.  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Sennewald Drug Co., 2723 Chouteau Ave., St. Louis  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12


## RED OIL (Oleic Acid)


(see also Brokers and Dealers)


American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Capital City Prods. Co., Columbus 16, O.  
Celina Stearic Acid Co., Celina, Ohio  
Century Stearic Acid Candle Works, 41 E. 42nd St., N. Y.  
Darling & Co., 4201 S. Ashland Ave., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati


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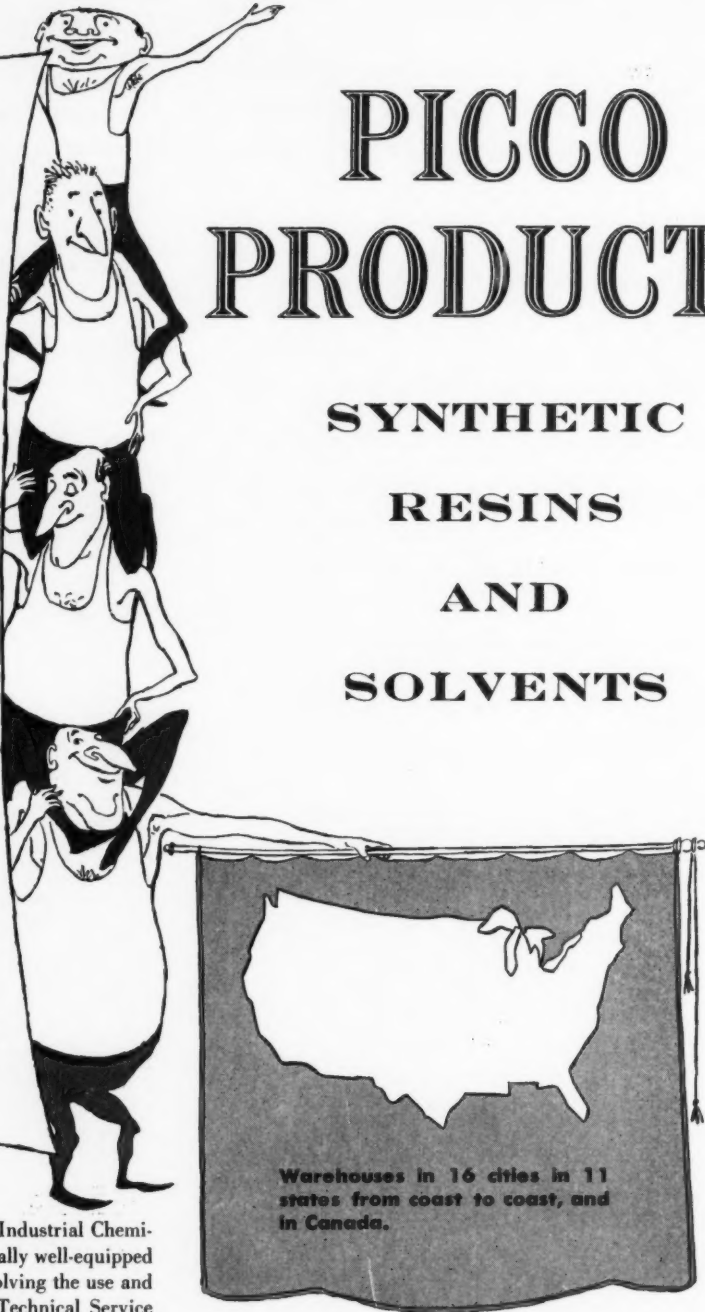
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General Mills, Inc., 400 2nd Ave., S., Minneapolis 7, Minn.  
A. Gross & Co., 295 Madison Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Woburn Chem. Corp., Harrison, N. J.

#### REPELLENTS (See Insect Repellents)

#### RESINS, SILICONE

Dow-Corning Corp., Midland, Mich.  
General Electric Co., Waterford, N. Y.  
Silicones Div., Union Carbide & Carbon Corp., 30 E. 42  
St., N. Y. 17

#### RESINS, Synthetic

Alkydol Laboratories, Inc., 3242 S. 50th Ave., Cicero, Ill.  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
Bakelite Co., Div. Union Carbide & Carbon Corp., 30 E.  
40 St., N. Y.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.  
N. Y.  
Cato Chemical Co., 116 S. York St., Elmhurst, Ill.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Durez Plastics Div., Hooker Electro Chemical Co., N.  
Tonawanda, N. Y.  
General Mills, Inc., 400 2nd Ave., Minneapolis 1  
B. F. Goodrich Chem. Co., Cleveland 15

Hercules Powder Co., 961 Market St., Wilmington, Dela.  
Krumbhaar Chemicals, Inc., South Kearny, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Neville Chemical Co., Pittsburgh, Pa.  
Pennsylvania Industrial Chemical Corp., Clairton, Pa.  
Reichhold Chemicals, Inc., White Plains, N. Y.  
Rohm & Haas Co., Resinous Products Div., 222 W.  
Washington Sq., Philadelphia  
Schenectady Resins, 200 Congress St., Schenectady, N. Y.  
Semet-Solvay Petrochemical Div., Allied Chem. & Dye  
Corp., 40 Rector St., N. Y.  
Shanco Plastics & Chemicals, Inc., 2 Mile Creek Rd.,  
Tonawanda, N. Y.  
Shell Chemical Corp., 50 W. 50th St., N. Y. 20  
Union Bay State Chemical Co., 491 Main St., Cambridge,  
Mass.  
Velsicol Corp., 330 E. Grand Ave., Chicago  
T. F. Washburn Co., 2244 Elston Ave., Chicago

#### RESINS, NATURAL (see Gums)

#### RESPIRATORS (See Gas Masks)

#### RHODINOL (see Aromatic Chemicals)

#### ROACH PASTE

John Opitz, Inc., 50-14 39th St., L. I. City, N. Y.  
Sennewald Drug Co., 2723 Chouteau Ave., St. Louis

#### ROACH POWDERS (see Household Insecticides, Powder)

#### RODENTICIDES (See Rat Exterminating Products)

#### ROOM DEODORANTS (See lists under Glyco Sprays, Theatre Sprays.)

#### ROSIN

American Turp. Farmers Assn., Valdosta, Ga.  
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Antwerp Naval Stores Co., Savannah, Ga.  
 Central Solvents & Chem. Co., 2540 W. Flournoy St., Chicago  
 Continental Turp. & Rosin Corp., Laurel, Miss.  
 Crosby Chemicals, Inc., Picayune, Miss.  
 Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)  
 Dixie Solvents & Chems. Co., Dixie Highway & Appleton Lane, Louisville, Ky.  
 General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1  
 Georgia Rosin Prods. Co., Brunswick, Ga.  
 Glidden Co., Naval Stores Div., P. O. Box 389, Jacksonville, Fla.  
 Hercules Powder Co., 961 Market St., Wilmington, Del.  
 Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.  
 Hoosier Solvents & Chemicals Corp., 1650 Luett St., Indianapolis  
 Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis  
 Newport Industries, Inc., 230 Park Ave., N. Y.  
 Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
 Phoenix Naval Stores Co., Gulfport, Miss. (wood)  
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
 Texas Solvents & Chem. Co., 8501 Market St., Houston  
 Wax & Rosin Prods., 42 Broadway, N. Y.  
 Welch, Holme & Clark Co., 439 West St., N. Y.  
 Wisconsin Solvents & Chem. Corp., 1719 S. 83 St., Milwaukee  
 Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

## ROSIN SOAPS (See Laundry Soap)

## ROTENONE and FORMULATIONS

Agicide Laboratories, 1717 Taylor Ave., Racine, Wis.  
 Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
 California Spray-Chemical Corp., Richmond, Calif.  
 Chem. Insecticide Corp., 129 Montague St., Bklyn.  
 Chipman Chem. Co., Bound Brook, N. J.  
 Dodwell & Co., 120 Wall St., N. Y. 5  
 Douglas Chem. Co., 620 E. 16 St., North Kansas City, Mo.  
 Fairfield Chem. Div., 1701 Patapsco Ave., Balto., Md.  
 Geigy Agricultural Chemicals, 89 Barclay St., N. Y.  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 McCormick & Co., Baltimore, Md.  
 Miller Prods. Co., 1932 S. W. Water Ave., Portland, Ore.  
 S. B. Penick & Co., 50 Church St., N. Y.  
 John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
 Prentiss Drug & Chem. Co., 110 William St., N. Y.  
 Private Brands, Inc., 300 S. Market St., Kansas City, Kan.  
 Quinn Drug & Chem. Co., Greenwood, Miss.

## RUG and UPHOLSTERY CLEANERS

Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.  
 Analab Laboratories, 285 Franklin St., Boston 10  
 Antara Chemicals, Div. General Aniline & Film Corp., 435 Hudson St. N. Y.  
 Armour Industrial Soap, 1355 W. 31st St., Chicago  
 Boston Chem. Industries, 64 E. Brookline St., Boston 18  
 Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport, Conn.  
 Brilco Labs., 1553-63rd St., Bklyn. 19  
 Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City  
 Candy & Co., 2515 W. 35th St., Chicago  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago  
 Clifton Chemical Co., 62 William St., N. Y.  
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Davies-Young Soap Co., Dayton, O.  
 E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
 E. I. du Pont de Nemours & Co., Wilmington  
 Eagle Soap Corp., Huntington, Ind.  
 Essential Chem. Co., 5906 N. Port Washington Rd., Milwaukee  
 Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
 Fuld Bros., 702 S. Wolfe St., Baltimore

Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.

James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Phila. 37  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
 Klux Chem. Co., 551 Railroad Ave., South San Francisco, Calif.

M. & H. Laboratories, 2705 Archer Ave., Chicago  
 M. Michel & Co., 90 Broad St., N. Y.  
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
 New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
 Nopco Chem. Co., First & Essex Sts., Harrison, N. J.  
 Onyx Oil & Chem. Co., Warren & Morris Sts.

Jersey City 2  
 Oronite Chemical Co., 200 Bush St., San Francisco 4  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Piatt & Smillie Chems., 2322 Olive St., St. Louis 3  
 Philadelphia Quartz Co., Public Ledger Bldg., Phila.  
 Procter & Gamble Dist. Co., Cincinnati  
 Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
 Sander Chem. Co., 2205 N. American St., Phila. 33  
 I. Schneid, 916 Ashby St., Atlanta, Ga.  
 Simoniz Co., 2100 Indiana Ave., Chicago 16

Swift & Co., Chicago  
 Tesco Chemicals, Inc., Atlanta 5, Ga.  
 Trio Chem. Wks., 341 Scholes St., Bklyn.  
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
 Uncle Sam Chem. Co., 573 W. 131st St., N. Y. C.  
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12

James Varley & Sons, 1200 Switzer Ave., St. Louis  
 Washine-National Sands, Inc., 37-02 Northern Blvd., Long Island City

Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Jacques Wolf & Co., Passaic, N. J.  
 Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

Zeem Chemical Co., 2000 Elm St., Cleveland 13

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 Esso Standard Oil Co., 15 W. 51 St., N. Y. 19  
 Fuld Bros., 702 S. Wolfe St., Baltimore  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
 Hysan Products Co., 932 W. 38th Place, Chicago  
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 Science Industries, 1509 N. Broadway, St. Louis  
 Simoniz Co., 2100 Indiana Ave., Chicago 16  
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## SADDLE SOAP

Armour & Co., 1355 W. 31st St., Chicago  
 Baum's Castorine Co., Rome, N. Y.  
 Chem. Service of Balto., Howard & West Sts., Balto.  
 Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
 Davies-Young Soap Co., Dayton, O.  
 James Good, Inc., 2107 Susquehanna Ave., Phila.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia  
 R. M. Hollingshead Corp., Camden, N. J.  
 Hysan Prods. Co., 932 W. 38th Place, Chicago  
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
 Rome Soap Mfg. Co., Rome, N. Y.  
 John T. Stanley Co., 642 W. 30th St., N. Y.  
 Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
 Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.



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Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Dow Chemical Co., Midland, Mich.  
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LeRoy Salt Co., LeRoy, N. Y.  
Michigan Chem. Corp., St. Louis, Mich.  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Pomeroy Salt Co., Pomeroy, Ohio  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Welch, Holme & Clark Co., 439 West St., N. Y.

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Antiseptol Co., 5524 Northwest Highway, Chicago  
Armour Soap Wks., 1355 W. 31st St., Chicago  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
J. Evenson & Sons, Camden, N. J.  
Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.  
Hewitt Soap Co., Dayton, O.  
Kamen Soap Products Co., 233 Broadway, N. Y. C.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Mem Co., 67 Irving Pl., N. Y. 3  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2 N. J.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Atlas Prods. Co., 3825 S. Racine Ave., Chicago  
Compco Corp., 2251 W. St. Paul Ave., Chicago 47  
Ex-Cell Prods. Corp., 2037 W. Churchill St., Chicago  
Franklin Metal Prods. Co., 1500-02 S. Wabash Ave., Chicago  
Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y.  
Shore Metal Products, 2881 E. Pico Blvd., Los Angeles  
F. H. Lawson Co., 852 Evans St., Cincinnati 4, O.  
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## SANITIZERS (see Disinfectants, Quaternary; also Detergents, Synthetic, Cationic)

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Aceto Chem. Co., 40-40 Lawrence Ave., Flushing, N. Y.  
Florasynth Laboratories, 900 Van Nest Ave., Bronx, N. Y.  
Leeben Chemical Co., 140 West Broadway, N. Y. 13  
S. B. Penick & Co., 50 Church St., N. Y. 7  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

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Armour Industrial Soap Dept., Chicago 9  
B. T. Babbitt, Inc., 386—4th Ave., N. Y. 16  
Britex Corp., 17-18 Lewis Wharf, Boston 10  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Du Bois Soap Co., Cincinnati, O.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hewitt Soap Co., Dayton, O.  
Higley Chem. Co., Dubuque, Iowa  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati  
Hysan Prods., 932 W. 38th Place, Chicago

J. Chemical Works, 602 W. 37th St., N. Y. 18  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
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Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 24  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
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J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati  
Puritan Chem. Co., 916 Ashby St., N.W., Atlanta  
S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
E. B. Snyder Laboratories, 2137 E. Harold St., Phila. 24  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Stevens Soap Corp., 200 Sullivan St., Brooklyn  
Swift & Co., Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd. Chicago 12  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Warren Soap Mfg. Co., Brighton, Mass.  
Allen B. Wrisley Co., 601 W. 65th St., Chicago  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## SCOURING SOAPS (Bars)

Aid Soap Mfg. Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Baum's Castorine Co., Rome, N. Y.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
James Good, Inc., 2107 E. Susquehanna Ave., Phila.  
Hewitt Soap Co., Dayton, O.  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Murro Chemical Co., Portsmouth, Va.  
National Soap Co., P. O. Box 1631, Tacoma, Wash.  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Dist. Co., Cincinnati, O.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
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Simplicity Engineering Co., Durand, Mich.  
Sprout, Waldron & Co., Muncy, Pa.  
Stedman's Fdy. & Machine Works, Aurora, Ind.  
Stephens-Adamson Mfg. Co., Aurora, Ill.  
Sturtevant Mill Co., Boston, Mass.  
Wickwire Spencer Steel Div., 575 Madison Ave., N. Y.

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Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago  
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Peck's Products Co., 610 Clarence Ave., St. Louis 15  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Surety Laboratories, 3946 Olive St., St. Louis 8  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
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T. F. Washburn Co., 2244 Elston Ave., Chicago

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Consolidated Packaging Machy. Corp., 1400 West Ave., Buffalo 13, N. Y.  
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Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (used)  
New Jersey Machine Corp., Hoboken, N. J.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
St. Regis Paper Co., 230 Park Ave., N. Y.  
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Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia  
Weigh Right Automatic Scale Co., 404 Grant Ave., Joliet, Ill.

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J. L. Ferguson Co., Joliet, Ill.  
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Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Glyco Products Co., 350 5th Ave., N. Y.  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
M. Michel & Co., 90 Broad St., N. Y.  
Mona Industries, 65 E. 23 St., Paterson, N. J.  
Monsanto Chem. Co., St. Louis 4  
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.  
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Refined Prods. Corp., Lyndhurst, N. J.  
Royce Chem. Co., Carlton Hill, N. J.  
Rumford Chem. Wks., 19 Newman Ave., Rumford, R. I.  
Solvay Process Div., Allied Chemical & Dye Corp., 61 Broadway, N. Y.  
Stanalchem Inc., 350 Madison Ave., N. Y. 17  
Victor Chemical Works, 155 N. Wacker Drive, Chicago  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
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Eagle Soap Corp., Huntington, Ind.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fine Organics, Inc., 211 E. 19th St., N. Y. 3  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue  
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Hewitt Soap Co., Dayton, O.  
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Maywood Chem. Wks., 100 W. Hunter Ave., Maywood,  
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Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
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Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.

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Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey  
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Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
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Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
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Hysan Prods., Co., 932 W. 38th Pl., Chicago 9  
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M. Michel & Co., 90 Broad St., N. Y. 4  
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3  
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Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St.,  
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Chicago 8  
Davies-Young Soap Co., Dayton, O.  
Dominion Prods., Inc., 10-10 44th Dr., Long Island City  
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Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37  
Hewitt Soap Co., Dayton, O.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Maywood Chem. Wks., 100 W. Hunter Ave., Maywood,  
N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23 St., Paterson, N. J.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark,  
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Onyx Oil & Chemical Co., Warren & Morris Sts.  
Jersey City 2  
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Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 4  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Procter & Gamble Dist. Co., Cincinnati  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
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Verona Chem. Co., 26 Verona Ave., Newark, N. J.

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Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Davies-Young Soap Co., Dayton 1, O.  
Duveen Soap Corp., 36-14 35th St., Long Island City,  
N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark,  
N. J.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.

#### SHAVING CREAM BASE

E. I. du Pont de Nemours & Co., Wilmington  
Duveen Soap Corp., 36-14 35th St., Long Island City,  
N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark,  
N. J.  
Refined Prods. Corp., Lyndhurst, N. J.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Van Dyk & Co., Belleville 9, N. J.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHAVING SOAP (Cake, Stick, Powder)

Chicago Sanitary Prods. Co., 3100 S. Throop St.,  
Chicago 8  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Duveen Soap Corp., 36-14 35th St., Long Island City 6,  
N. Y.  
Hewitt Soap Co., Dayton, O.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### SHELLAC

Biddle Sawyer Corp., 20 Vesey St., N. Y. 7  
Bradshaw Praeger & Co., 3248 W. 47th Place, Chicago  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18

**Leading  
No-Rub Floor Polish  
Manufacturers use**



**CERTIFIED REFINED  
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for better  
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Quality  
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*For no-rub waxes  
with greater  
shelf-stability*

*gloss  
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plus durability  
leveling  
anti-slip*

#65

*Refined white shellac*

Leading manufacturers of water emulsion waxes  
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*The Mantrose Corporation*

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Wynnewood, Pa.  
J. H. Hinz Company  
Cleveland 13, Ohio  
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Chicago 6, Ill.  
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*Refined VAC-DRY is the best  
wax-free shellac made for self-  
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**WE INVITE YOU TO  
MAKE US PROVE IT!**

We will welcome the opportunity  
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wax in ways that appeal to more  
customers in your highly competi-  
tive market.

For example, VAC-DRY will give  
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advantages:

- lighter color film
- higher gloss
- greater anti-slip
- improved self-leveling
- longer wear
- better shelf life

VAC-DRY is made from lighter-col-  
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value. Takes less alkali to go into  
solution for greater water resist-  
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unusually stable aqueous solution.

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319 N. Western Ave., Chicago 12, Ill.

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Dings & Schuster, Inc., 17 John St., N. Y.  
Gillespie-Rogers-Pyatt Co., 75 West St., N. Y.  
Haeuser Shellac Co., 52-64 Warren St., Bklyn.  
Mac-Lac Co., Inc., 33 Rector St., N. Y. 6  
Mantrose Corp., 136 41st St., Brooklyn, N. Y.  
F. H. Paul & Stein Bros., Inc., 235 Fifth Ave., N. Y.  
Wm. Zinsser & Co., 516 W. 59th St., N. Y.

## **SHELLAC WAX**

Bradshaw Praeger & Co., 3248 W. 47 Pl., Chicago  
Gillespie-Rogers-Pyatt Co., 75 West St., N. Y.  
Mantrose Corp., 136 41 St., Brooklyn  
Wm. Zinsser & Co., 516 W. 59 St., N. Y.

## **SHIPPING CASES (see Boxes, Corrugated or Fibre)**

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Asco Chemical Co., 641 Lexington Ave., Bklyn.  
Chem. Service of Balto., Howard & West Sts., Balto.  
James Good, Inc., 2107 Susquehanna Ave., Phila.  
R. M. Hollingshead Corp., Camden, N. J.  
K. B. Chem Co., Dunnell's Lane, Pawtucket, R. I.  
D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.  
H. F. Staples Co., Medford, Mass.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.  
Walco Prods., Inc., 36 Woodland St., Hartford, Conn.

## **SHOE POLISH DAUBERS**

Alba Cork Co., 93 Oxford Ave., Jersey City, N. J.  
American Cork Specialties Co., 140 Junius St., Brooklyn  
Applicator Brush Co., 100 Water St., Brooklyn, N. Y.  
Applicator Co., 163 13th St., Brooklyn, N. Y.  
Armstrong Cork Co., Lancaster, Pa.

## **SHEEP DIPS (see Cattle Dips)**

## **SIFTER TOP CANS (see Cans, Sifter Top)**

## **SIFTING AND SCREENING EQUIPMENT**

B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
J. H. Day Co., 4932 Beech St., Norwood, Cincinnati  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chi-  
cago (Used)  
Ludlow-Sayer Wire Co., St. Louis, Mo.  
Newman Tallow & Soap Machy. Co., 1051 W. 35 St.,  
Chicago (Used)  
Orville Simpson Co., 1230 Knowlton St., Cincinnati  
Read-Standard Corp., York, Pa.  
Simplicity Engineering Co., Durand, Mich.  
Sprout, Waldron & Co., Muncy, Pa.  
Stephens-Adamson Mfg. Co., Aurora, Ill.  
Sturtevant Mill Co., Boston, Mass.  
Wickwire Spencer Steel Div., 575 Madison Ave., N. Y.

## **SILICA**

Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.  
Illinois Silica Co., Cairo, Ill.  
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.  
Robeco Chemicals Inc., 23 E. 26th St., N. Y. C.  
Silica Prods. Co., 700 Baltimore Ave., Kansas City, Mo.  
Tamm Industries, Inc., 228 N. LaSalle St., Chicago  
Charles A. Wagner Co., 813 Callowhill St., Phila. 23  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Witco Chemical Co., 122 E. 42 St., N. Y.

## **SILICOFLUORIDES (see Sodium Silicofluoride)**

## **SILICONES**

Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3  
Dow-Corning Corp., Midland, Mich.  
General Electric Co., Waterford, N. Y.



## SILICONES (Contd.)

Silicones Div., Union Carbide & Carbon Corp., 30 E. 42 St., N. Y. 17

## SKIN CLEANERS (see Hand Soaps)

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J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Meccaniche Moderne, Corso Sempione 51, Busto  
Arsizio, Italy  
Project Construction Corp., 39 Broadway, N. Y. 6  
Henry Simon Ltd., Stockport, Cheshire, England  
Foster D. Snell, 29 W. 15 St., N. Y. 11  
Wurster & Sangre, 5201 S. Kenwood Ave., Chicago

## SOAP BARK (see Saponin)

## SOAP BOOKS (see Soap Paper)

## SOAP, CASTILE (see Castile Soap)

## SOAP, CHIP (see Chip Soap)

## SOAP DISPENSERS (Lathering)

American Dispenser Co., 115 E. 23rd St., N. Y. 10  
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Products Co., 932 W. 38th Pl., Chicago  
Imperial Brass Co., 1237 W. Harrison Ave., Chicago  
Moore Bros. Co., 100 Warren St., N. Y.  
Palmer Fixture Co., Waukesha, Wisc.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
Uncle Sam Chem. Co., 573 W. 131 St., N. Y. 27  
Vestal, Inc., 4963 Manchester St., St. Louis 10

## SOAP DISPENSERS (Liquid)

Ace Dispenser Co., 100 Broadway, Buffalo, N. Y.  
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
American Dispenser Co., 115 E. 23rd St., N. Y. 10  
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Chem. Service of Balto., Howard & West Sts., Balto.  
Eagle Soap Corp., Huntington, Ind.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
National Dispenser Co., 230 W. 116th St., Los Angeles (paste)  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.  
Palmer Fixture Co., Waukesha, Wisc.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Uncle Sam Chem. Co., 573 W. 131 St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago

## SOAP DISPENSERS (Powder)

Ace Dispenser Co., 100 Broadway, Buffalo, N. Y.  
American Dispenser Co., 115 E. 23rd St., N. Y. 10  
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Chem. Service of Balto., Howard & West Sts., Balto.  
Clifton Chemical Co., 62 William St., N. Y.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Palmer Fixture Co., Waukesha, Wisc.  
Sugar Beet Prods. Co., Saginaw, Mich.

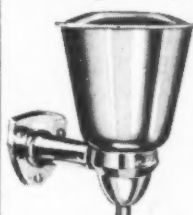
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YEARS

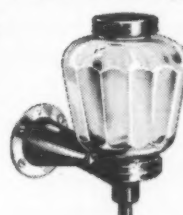


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The only low-price all-metal liquid dispenser on the market.



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Lowest price top fill liquid dispenser with cemented globe.



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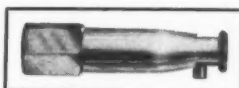
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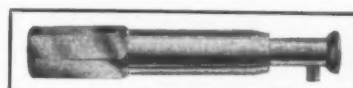
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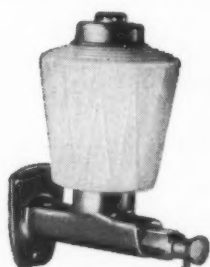
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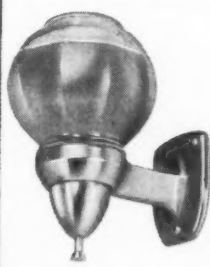
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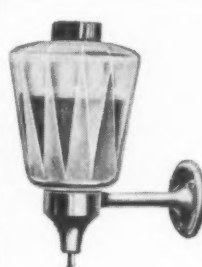
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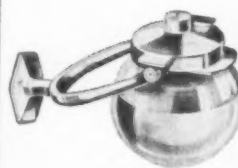
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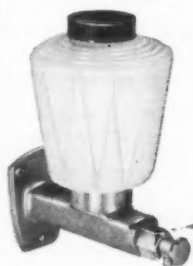
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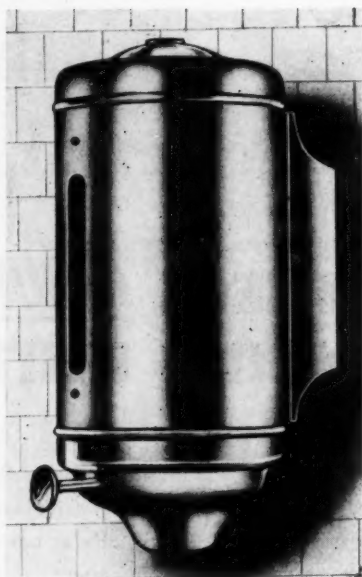
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**MORE DURABLE** — Mount it on wall or waterpipe, the Ace dispenser actually *locks* to the mounting from *inside* the body, which has a locking refilling cap!

**NEW TYPE VALVE** — Caterpillar combination valve and spring-steel agitator for measured powder release; perfected by the Ace Dispenser Co. for years of service.

**STURDIER** — Extra heavy steel body and wall mounting, reinforced. Heavy plastic observation window.

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*Manufacturers of Soap Dispensers Exclusively*

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U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave.,  
Chicago 12  
Utility Co., 636 W. 44 St., N. Y. 36

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American Dispenser Co., 115 E. 23rd St., N. Y. 10  
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Eagle Soap Corp., Huntington, Ind.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Moore Bros. Co., 101 Warren St., N. Y.  
Palmer Fixture Co., Waukesha, Wisc.  
Ped-O-Flo Co., Waverly, Iowa  
Vestal, Inc., 4963 Manchester St., St. Louis  
U. S. Sanitary Spec. Corp., 1001 S. California Ave.,  
Chicago 12  
Uncle Sam Chem. Co., 573 W. 131 St., N. Y. 27

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Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.  
American Dispenser Co., 115 E. 23rd St., N. Y. 10  
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Moore Bros. Co., 101 Warren St., N. Y.  
Palmer Fixture Co., Waukesha, Wis.  
Spraying Systems Co., 3217 Randolph St., Bellwood, Ill.  
Uncle Sam Chemical Co., 575 W. 131st St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave.,  
Chicago 12  
West Disinfecting Co., Long Island City, N. Y.

SOAP DISPENSERS, for attaching to drums. (See Soap Solutionizing Devices.)

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R. A. Jones & Co., Covington, Ky.  
Jas. H. Matthews & Co., 3942 Forbes St., Pittsburgh  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
I Schwartz Engraving & Die Works, 241 Lafayette St.,  
N. Y.

#### SOAP DRYERS (Continuous for CHIP SOAPS)

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Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
Italy  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
Chicago (Used)  
Procter & Schwartz, 7th St. & Tabor Rd. Phila.  
C. G. Sargent's Sons Corp., Graniteville, Mass.  
Herry Simon Ltd., Stockport, Cheshire, England  
F. J. Stokes Machine Co., Phila. 20

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Buffalo Forge Co., 490 Broadway, Buffalo, N. Y.  
Buffalo Foundry & Machine Co., Buffalo, N. Y.  
Drying Systems, Inc., 1800 Foster Ave., Chicago  
Ellis Dryer Co., 2444 N. Pulaski Ave., Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Industrial Process Engineers, 8 Lister Ave., Newark 5,  
N. J.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St.,  
Chicago (used)  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago (Used)



Proctor & Schwartz, 7th & Tabor Rd., Philadelphia  
 C. G. Sargent's Sons Corp., Graniteville, Mass.  
 F. J. Stokes Machine Co., Philadelphia, Pa.  
 B. F. Sturtevant Co., Hyde Park, Boston  
 Western Precipitation Corp., Los Angeles

#### SOAP, FLOATING (see Floating Soaps)

#### SOAP FRAMES

Houchin Machinery Co., Hawthorne, N. J.  
 Littleford Bros., 451 E. Pearl St., Cincinnati  
 Loeb Equipment Supply Co., 810 Superior St., Chicago  
 (used)  
 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio,  
 Italy  
 Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,  
 Chicago

#### SOAP, GREEN (see Potash Soaps)

#### SOAP, HAND (see Hand Soaps)

#### SOAP, HARD WATER (see Hard Water Soaps)

#### SOAP KETTLES

Bethlehem Foundry & Mach. Co., Grand Cent. Bldg.,  
 N. Y.  
 Bennett Industries, Peotone, Ill.  
 S. Blickman, Inc., 72 Gregory Ave., Weehawken, N. J.  
 Conn & Co., Warren, Pa.  
 J. H. Day Co., 4932 Beech St., Norwood, Cincinnati  
 Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.  
 Filpaco Industries, 2464 S. Michigan Ave., Chicago  
 Houchin Machinery Co., Hawthorne, N. J.  
 Industrial Process Engineers, 8 Lister Ave., Newark 5,  
 N. J.  
 Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
 Littleford Bros., 443 E. Pearl St., Cincinnati  
 Loeb Equipment Supply Co., 810 W. Superior St., Chi-  
 cago (Used)  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago  
 Read Standard Corp., York, Pa.  
 Geo. C. Rodgers Co., 2401 Third Ave., N. Y.  
 Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.  
 Struthers-Wells Co., Warren, Pa.

#### SOAP, LAUNDRY (see Laundry Soap)

#### SOAP, LIQUID (see Potash Soaps)

#### SOAP, MARINE (see Hardwater Soaps)

#### SOAP, MEDICINAL, CAKE (see Medicinal Soaps)

#### SOAP MILLS

Buhler Bros., 2121 State Highway No. 4, Fort Lee, N. J.  
 J. H. Day Co., Inc., 4932 Beech St., Norwood, Cincinnati  
 Houchin Machy. Co., Hawthorne, N. J.  
 Kent Mach. Wks., 37 Gold St., Bklyn. 1  
 J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
 Loeb Equipment Supply Co., 810 W. Superior St., Chi-  
 cago (Used)  
 Meccaniche Moderne, Busto Arsizio, Italy  
 Franklin P. Miller & Son, 36 Meadow St., East Orange,  
 N. J.  
 Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
 Chicago (Used)  
 Chas. Ross & Son Co., 150 Classon Ave., Bklyn. 5  
 Troy Engine & Mach. Co., Troy, Pa.

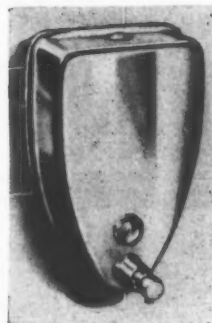
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# Watrous

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M-998 Liquid  
 L-999 Lather

New Tear Drop design  
 wall mounted dispensers



M-807  
 Liquid  
 M-867  
 Lather

Wall mounted dispensers with glass con-  
 tainers



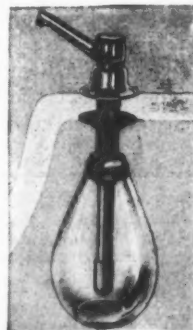
M-807-MJ  
 Liquid  
 M-867-MJ  
 Lather

Wall mounted  
 dispensers with  
 metal con-  
 tainers



C-866 Liquid  
 C-868 Lather

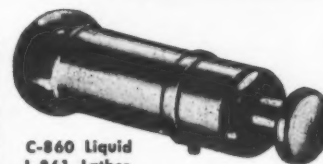
Lavatory mounted  
 valves



M-801 Liquid  
 M-894 Lather

Lavatory mounted dispensers  
 Also available with metal  
 containers

M-801-MJ  
 M-894-MJ



C-860 Liquid  
 L-861 Lather

Wall mounted valves



M-815  
 Liquid

Push-up type  
 wall mounted  
 dispenser

Also many other styles; write for Catalog No. 884-W

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is now available to you whether you are building a complete plant or need technical assistance in selecting the proper unit for replacement or expansion. Our new *Service Division* is experienced in the latest developments in the fields of *Soap, Synthetic Detergents, and Chemical Specialties*, and is ready to *consult* with you on problems involving Plant Design and Operation, Equipment Application, Formulation and Chemical Control.

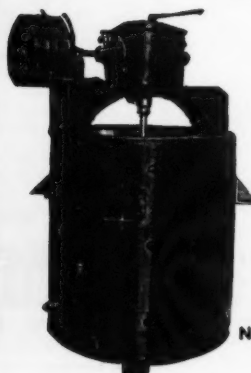
Call, Write or Wire for Additional Information

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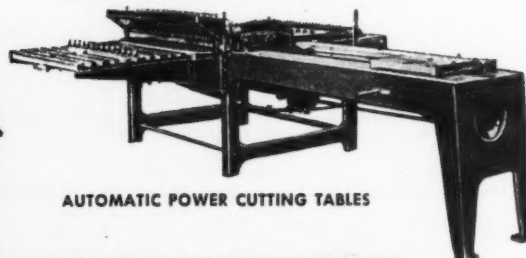
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SOAP MACHINERY  
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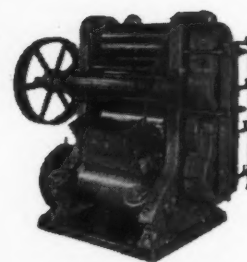


Single screw soap pladders with 6, 8, 10 or 12 inch screws. All completely rebuilt and unconditionally guaranteed

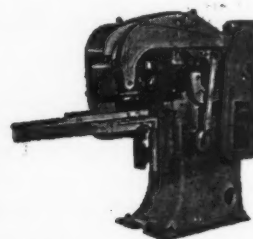


**AUTOMATIC POWER CUTTING TABLES**

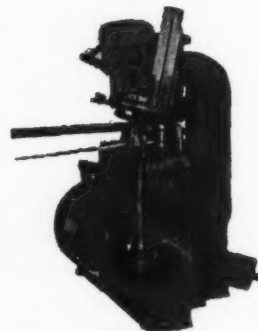
Newman's Steel Steam Jacketed SOAP CRUTCHERS.  
BRAND NEW. Sizes 1,000 to 10,000 lbs.



**TOILET SOAP MILLS**  
3 Roll - 4 Roll - 5 Roll  
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**JONES Horizontal Type AUTOMATIC**  
combination laundry and toilet soap  
presses. Single or Double Kick.

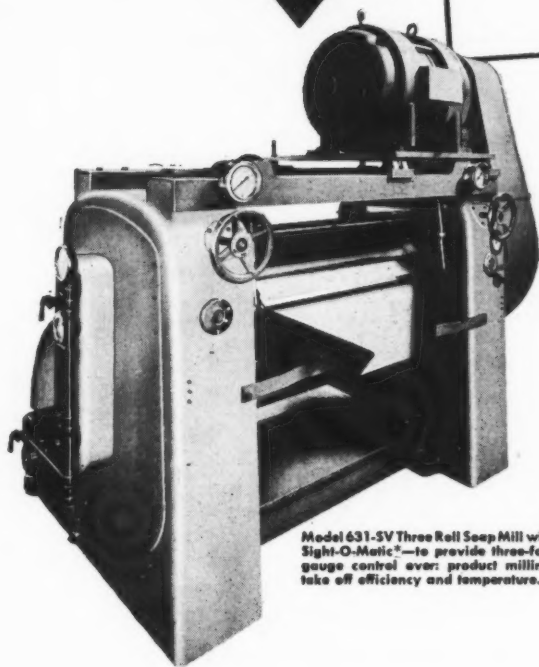


**Jones Vertical type**  
**AUTOMATIC Toilet Soap Presses.**

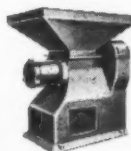


# LEHMANN MACHINES

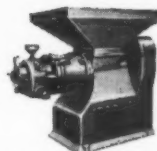
... Engineered to  
**YOUR**  
Soap Finishing Needs  
**PRESENT and FUTURE**



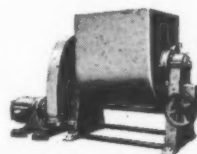
Model 631-SV Three Roll Soap Mill with Sight-O-Matic®—to provide three-fold gauge control over product milling, take off efficiency and temperature.



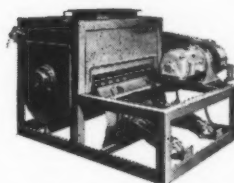
Model 310-P Preliminary Plodder



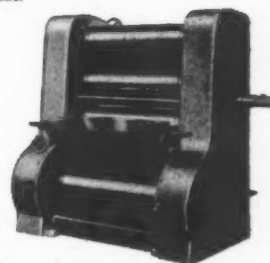
Model 310-F Finishing Plodder



Model 40 G-Y Tilling Type Amalgamator



Model 40 G-S Bottom Dump Amalgamator



Model 912-SA Five Roll Finishing Mill

LEHMANN is constantly aware of, and responsive to, the mechanical problems involved in processing soaps—to past standard formulations and the newer detergent types. We have designed machines to meet the changing needs of the Industry. Our engineers cooperate closely with soap producers to assure that user requirements are reflected in every detail of construction.

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Lehmann tailors special machinery to suit particular needs. Our standard models . . . some of which are shown . . . are only indicative of the type of equipment and service which Lehmann can supply.

If you are not ready for new equipment, ask us about Lehmann Certified Factory Reconditioning for the machines you are now using.

\*Reg. U. S. Pat. Off.



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Houchin Machinery Co., Hawthorne, N. J.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (Used)  
Meccaniche Moderne, Busto Arsizio, Italy  
G. Mazzoni, SPA, Busto Arsizio, Italy  
Micro Processing Equipment, Inc., Savage, Minn.  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)  
H. K. Porter Co., 49th and Harrison Sts., Pittsburgh  
Sharp Bros., 201 Orient St., Bayonne, N. J. (Cutters)

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Burlington Soap Co., 111 Washintgon St., Chgo. 2  
Charles F. Hubbs & Co., 383 Lafayette St., N. Y.  
Moore Bros. Co., 101 Warren St., N. Y.

#### SOAP PERFUMES (see also Aromatic Chemicals, Essential Oils, Perfuming Compounds)

Alfa Essential Oil Co., 6 Varick St., N. Y.  
American Aromatics, Inc., 24 E. 21 St., N. Y. 10  
Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Berje Chem. Prods. Co., 359 West Broadway, N. Y.  
Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.  
Charabot & Co., 114 E. 25th St., N. Y.  
Antoine Chiris Co., 212 E. 23rd St., N. Y.  
Delaire, Inc., 114 E. 32nd St., N. Y.  
Descollonges, Inc., 160 5 Ave., N. Y. 10

Dodge & Olcott, Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eastman Chem. Prods., Kingsport, Tenn.  
Felton Chemical Co., 603 Johnston Ave., Brooklyn  
Fine Chems. Div., Shulton, Inc., 630 5th Ave., N. Y.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Fleuroma, Inc., 38 W. 21st St., N. Y. 10  
Florasynt Labs., 900 Van Nest Ave., N. Y.  
Fries & Fries, Inc., 110 E. 70th St., Cincinnati  
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Gunning & Gunning, 601 W. 26th St., N. Y.  
Heine & Co., 601 W. 26 St., N. Y. 1  
D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.  
Lautier Fils, 321 Fifth Ave., N. Y.  
Geo. Lueders & Co., 427 Washington St., N. Y.  
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.  
Neumann Buslee Wolfe, 5800 Northwest Highway, Chicago  
N. Y. Aromatics Corp., Highbridge, N. J.  
Norda Essential Oil & Chem. Co., 601 W. 16th St., N. Y.  
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
S. B. Penick & Co., 50 Church St., N. Y.  
Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.  
Polak & Schwartz, Inc., 667 Washington St., N. Y.  
Polak's Frutal Works, 33 Sprague St., Middletown, N. Y.  
Polarome Co., 73 Sullivan St., N. Y. C.  
Reynaud, Ltd., 355 W. 52nd St., N. Y. 19  
Rhodia, Inc., 230 Park Ave., N. Y.  
P. Robertet, Inc., 125 E. 23rd St., N. Y. 10  
Roubechez, Inc., 8 E. 12th St., New York  
Roure-Dupont, Inc., 366 Madison Ave., N. Y.  
Edwin Seebach Co., 912 Broadway, N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y.  
Seeley & Co., Nyack, N. Y.  
Synfleur Scientific Labs., Monticello, N. Y.  
Syntomatic Corp., 114 E. 32nd St., N. Y.  
Tombarel Prods. Corp., 725 Broadway, N. Y. 3

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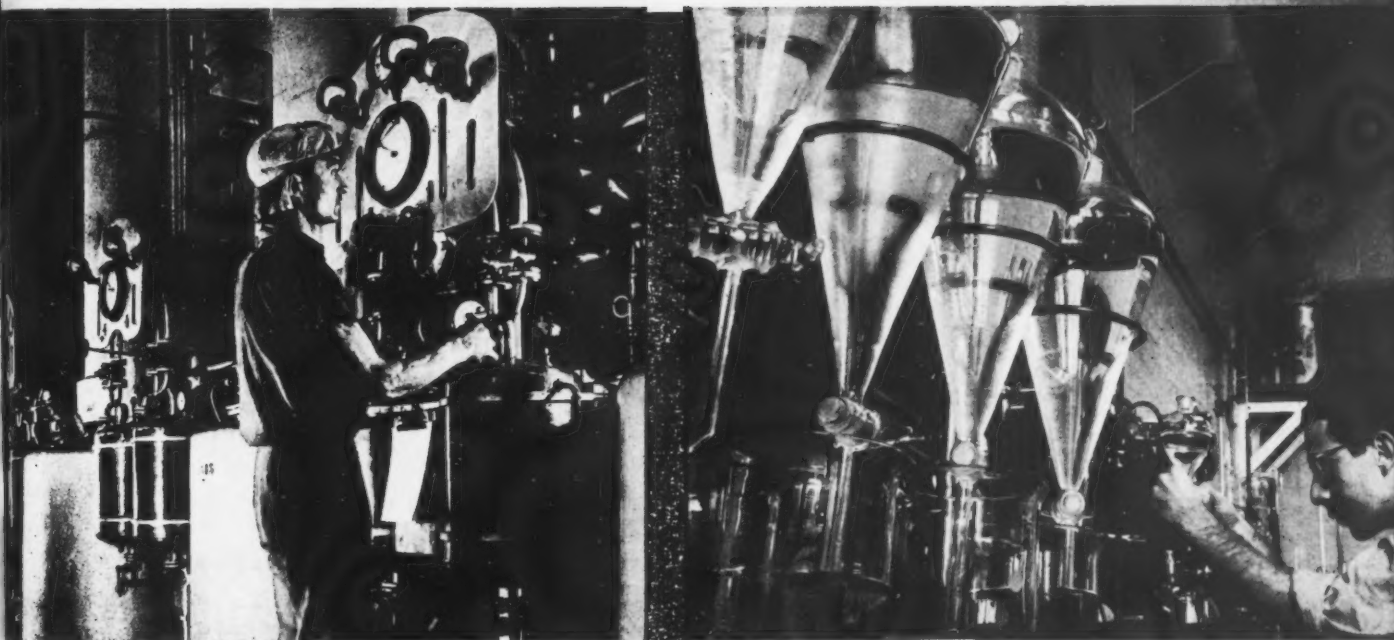
### SOAP & CHEMICAL SPECIALTIES BLUE BOOK

254 West 31st St.

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## Givaudan aromatics—keystones of progress in soap perfumery



The tremendous variety of Givaudan aromatics is the result of a long and successful research program designed to isolate and synthesize the perfumes of nature in laboratory and factory and to add new aromatics unknown to nature. Constant improvement in production methods has made them the standards by which chemical purity and olfactory quality are measured. Listed below are a few from the hundreds of these Givaudan "keystones of progress":

Aldehydes, Fatty: C-8 to C-12  
Amyl Cinnamic Aldehyde (Buxine®)  
Amyl Salicylate  
Anisic Aldehyde (Aubepine Liquid)  
Benzyl Acetate  
Carvacrol Technical NP  
Cinnamic Aldehyde, Alcohol & Esters  
Citronellol and Esters  
Cyclamen Aldehyde  
Dimethyl Anthranilate  
Geraniol and Esters  
Heliotropin  
Hydroxycitronellal (Laurine®)  
Indole

Ionones (Irisones)  
Isobornyl Acetate  
Linalool and Esters  
Methyl Ionones (Raldeines®)  
Moskene®  
Musk Ambrette  
Musk Ketone  
Musk Xylol  
Para Cresol and Derivatives  
Phenyl Ethyl Alcohol and Derivatives  
Safrol and Isosafrol  
Styralyl Acetate (Gardenol)  
Terpineol and Esters

G I V A U D A N

## SOAP PERFUMES (Contd.)

Ungerer & Co., 161 Avenue of Americas, N. Y.  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19  
Van Dyk & Co., Belleville 9, N. J.  
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.  
Verona Chem. Corp., 26 Verona Ave., Newark, N. J.

## SOAP PLANTS (Continuous Process) (see Continuous Process Soap Plants)

## SOAP, POWDERED (White neutral powdered soap, powdered castile soap, etc., 95-99 per cent anhydrous soap. Do not confuse with Soap Powders.)

Armour Industrial Soap Dept., Chicago 9  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 15 E. 26 St., N. Y. 10  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
General Biochemicals, Inc., Chagrin Falls, O.  
Hewitt Soap Co., Dayton, O.  
Kranich Soap Co., 60 Richards St., Brooklyn, N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Mione Mfg. Co., Collingdale, Pa.  
Murro Chemical Co., Portsmouth, Va.  
National Milling & Chem. Co., 4601 Nixon St., Phila.  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
S. B. Penick & Co., 50 Church St., N. Y.  
Procter & Gamble Distributing Co., Cincinnati  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Swift & Co., Chicago 9  
Warren Soap Mfg. Co., Brighton, Mass.  
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

## SOAP POWDERS

(Do not confuse with pure powdered soaps)

Aid Soap Mfg., Co., Rochester, Pa.  
American Soap & Washoline Co., Cohoes, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Beach Soap Co., Lawrence, Mass.  
Chicago Sanitary Prods. Co., 3100 S. Throop Ave., Chicago 8  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
E. F. Drew & Co., 16 E. 26th St., N. Y. 10  
Du Bois Soap Co., Cincinnati  
East Coast Soap Corp., 89 Coffey St., Bklyn. 31  
J. Eavenson & Sons, Camden, N. J.  
Essential Chems. Co., 5906 N. Port Washington Ave., Milwaukee  
Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods. 119 E. Soper St., St. Louis, 11  
General Biochemicals, Inc., Chagrin Falls, O.  
R. M. Hollingshead Corp., Camden, N. J.  
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
J Chemical Works, 437 11th Ave., N. Y. 18  
Klix Chem. Co., 2460 Third St., San Francisco  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Los Angeles Soap Co., 617 E. First St., Los Angeles  
Midland Laboratories, Dubuque, Iowa  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Murro Chemical Co., Portsmouth, Va.  
National Southern Products, Tuscaloosa, Ala.  
National Milling & Chem. Co., 4601 Nixon St., Phila. 27  
Nopco Chemical Co., First & Essex Sts., Harrison, N.J.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Procter & Gamble Distributing Co., Cincinnati  
Quaker Maintenance Co., 124 W. 18th St., N. Y. 11

S. & S. Soap Co., 815 E. 135th St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Stevens Soap Corp., 200 Sullivan St., Brooklyn  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Union Stock Yards, Chicago  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
Vliet Soap Co., 638 Monroe St., Brooklyn  
Warren Soap Mfg. Co., Brighton, Mass.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## SOAP PRESSES (see Presses)

## SOAP SHEETS (see Soap Paper)

## SOAP SOLUTIONIZING DEVICES (Solutionizing and dispensing devices for soaps and detergents)

Davies-Young Soap Co., Dayton, O.  
Hysan Prods. Co., 932 W. 38th Pl., Chicago 9  
Independent Specialties, 152 W. 75th St., Chicago  
J. Chemical Corp., 437 11th Ave., N. Y. 18  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Piatt & Smillie Chemicals, 2322 Olive St., St. Louis  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12

## SOAP SLABBERS (see Soap Machinery)

## SOAP SPRAY TOWERS (see Spray Towers)

## SOAP STOCK (Boiled down cotton oil soap stock, etc.)

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2  
Armour & Co., 1355 W. 31st St., Chicago  
T. G. Cooper & Co., Cedar and Venango Sts., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
Falk & Co., Pittsburgh 30  
Wm. H. Floyd & Co., Los Angeles  
Hewitt Soap Co., Dayton, O.  
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.  
Procter & Gamble Dist. Co., Cincinnati, O.  
Southern Cotton Oil Co., 25 Broad St., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Chicago 9  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SOAP TISSUES, (see Soap Paper)

## SOAP VALVES (see Soap Dispensers, Multi-unit)

## SOAP, WHALE OIL (see Whale Oil Soap)

## SOAP WRAPPING MACHY. (see Wrapping Mach.)

## SOAPLESS DETERGENTS (see Detergents, Synthetic)

## SOAPLESS SHAMPOOS (see Shampoos, Soapless)

## SOAPS, ANTISEPTIC AND DEODORANT (Cake and liquid)

Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.  
Analab Laboratories, 285 Franklin St., Boston 10  
Armour Industrial Soap Dept., Chicago 9  
Banner Chemical Prods. Co., 9 Calumet St., Newark 5, N. J.  
Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.  
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Crystal Soap & Chem. Co., 6300 State Rd., Phila.

## SOAPS, ANTISEPTIC & DEODORANT (Contd.)

Davies-Young Soap Co., Dayton, O.  
Duveen Soap Corp., 36-14 35th St., Long Island, City, N. Y.  
Eagle Soap Corp., Huntington, Ind.  
J. Eavenson & Sons, Camden, N. J.  
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee  
Essential Chemicals Co., 2200 N. 32nd St., Milwaukee 8  
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Haag Labs., Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37  
Hewitt Soap Co., 333 Linden Ave., Dayton, O.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.  
Oil Kraft, Inc., 3330 Beekman St., Cincinnati  
Original Bradford Soap Wks., West Warwick, R. I.  
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.  
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Piatt & Smillie Chemicals, 2322 Olive St., St. Louis 3  
Reily Chem. Corp., Ind. Prods. Div., P. O. Box 98, New Orleans, La.  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Sugar Beet Prods. Co., Saginaw, Mich.  
Swift & Co., Chicago  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Allen B. Wrisley Co., 6801 W. 56th St., Chicago, Ill.

## SOAPS, AUTO (see Potash Soaps)

## SOAPS, FLOATING (see Floating Soaps)

## SOAPS, GRANULATED (see Laundry Soaps, Granulated)

## SOAPS, SCOURING (see Scouring Soaps)

## SOAPS, SCRUBBING (see Floor Scrub Soaps)

## SOAPS, SURGICAL (see Potash Soaps)

## SOAPS, TEXTILE (see Textile Soaps)

## SODA ASH

(see also Dealers)

Amer. Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Hooker Electrochemical Co., Niagara Falls, N. Y.  
Niagara Alkali Co., 60 E. 42nd St., N. Y.  
Olin Mathieson Chem. Corp., Baltimore 3  
Penn Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
West End Chem. Co., 1956 Webster St., Oakland, Calif.  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp. 161 E. 42nd St., N. Y.  
Wyandotte Chemicals Co., Michigan Alkali Div., Wyandotte, Mich.

## SODA (Modified)

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.

Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SODIUM ACID SULFATE (see Nitre Cake)

## SODIUM ARSENITE

California Spray-Chemical Corp., Richmond, Va.  
Chipman Chem. Co., Bound Brooks, N. J.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Merck & Co., Rahway, N. J.  
Penn Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Shepherd Chem. Co., Cincinnati 12, O.  
Stauffer Chem. Co., 380 Madison Ave., N. Y.

## SODIUM BENZOATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Dow Chemical Co., Midland, Mich.  
Heyden Chem. Corp., 342 Madison Ave., N. Y. 17  
Hooker Electrochem. Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Merck & Co., Rahway, N. J.  
Monsanto Chem. Co., St. Louis 4  
Robeco Chems., Inc., 23 E. 26th St., N. Y. C.  
Seydel Chem. Co., 225 Mercer St., Jersey City, N. J.

## SODIUM BICARBONATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Church & Dwight Co., 70 Pine St., N. Y.  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Diamond Alkali Co., Union Commerce Bldg., Cleve.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Olin Mathieson Chem. Corp., Baltimore 3  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Robeco Chems., Inc., 23 E. 26th St., N. Y. C.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## SODIUM BICHROMATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chem. Co., 2nd & Mallinckrodt Sts., St. Louis 7  
Merck & Co., Rahway, N. J.  
Mutual Chemical Div., 99 Park Ave., N. Y.  
Natural Products Refining Co., 900 Garfield Ave., Jersey City, N. J.  
Jos. Turner & Co., Ridgefield, N. J.

## SODIUM BISULFATE (see Nitre Cake)

## SODIUM CARBONATE (see Soda Ash)

## SODIUM CHLORATE

Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Chipman Chem. Co., Bound Brook, N. J.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
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Jos. Turner & Co., Ridgefield, N. J.  
Western Electrochem. Co., Los Angeles 23, Calif.  
Jacques Wolfe & Co., 350 Lexington Ave., Passaic, N. J.

#### SODIUM CHLORIDE (see Salt, Common Salt)

#### SODIUM CHLORITE

Olin Mathieson Chem. Corp., Baltimore 3  
Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17

#### SODIUM CYANIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y. 6  
Mallinckrodt Chemical Wks., St. Louis 7  
Merck & Co., Rahway, N. J.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19  
Robeco Chems., Inc., 23 E. 26th St., N. Y. C.  
Jos. Turner & Co., Ridgefield, N. J.

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#### SODIUM FLUOSILICATE (see Sodium Silicofluoride)

#### SODIUM GLUCONATE (see listings under Acids, Citric, Gluconic, etc.)

#### SODIUM HYDROSULFITE

Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Wks., St. Louis 7  
Merck & Co., Rahway, N. J.  
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Royce Chemical Co., Carlton Hill, N. J.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia Smelting Co., W. Norfolk, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

#### SODIUM HYPOCHLORITE (see Laundry Bleach)

#### SODIUM HYPOSULFITE (Thiosulfate)

E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector  
St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate, Calif.  
Mallinckrodt Chem. Wks., St. Louis  
Merck & Co., Rahway, N. J.  
Rohm & Haas, 222 W. Washington Sq., Phila.  
Jos. Turner & Co., Ridgefield, N. J.  
Virginia Smelting Co., W. Norfolk, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

#### SODIUM LAURYL SULFATE (see Sulfated Fatty Alcohols)

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Monsanto Chem. Co., St. Louis 4  
Rumford Chemical Wks., 10 Newman Ave., Providence,  
R. I.  
Shea Chem. Corp., Jeffersonville, Ind.  
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Westvaco Mineral Prods. Div., Food Machy. & Chem.  
Corp., 161 E. 42 St., N. Y. 17

#### SODIUM METASILICATE (Anhydrous and Hydrated)

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Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Virginia-Carolina Chem. Corp., Richmond 5, Va.

## SODIUM METHYLATE

R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.  
Olin Mathieson Chem. Co., Baltimore 3

## SODIUM ORTHOSILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Cowles Chemical Co., 7016 Euclid Ave., Cleveland  
Diamond Alkali Co., 300 Union Commerce Bldg.,  
Cleveland 14  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17

## SODIUM PERBORATE

(see also Dealers)

Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17  
Becco Chemical Div., Food Machy. & Chem. Corp., Buf-  
falo 7, N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6  
C. Lievense, Ltd., 11 Broadway, N. Y. 4  
Mallinckrodt Chem. Wks., 2nd & Mallinckrodt Sts.,  
St. Louis 7  
Merck & Co., Rahway, N. J.  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17

## SODIUM PHOSPHATES (see also Sodium Metaphos- phate, Sodium Tripolyphosphate, Tetrasodium Pyro- phosphate, Trisodium Phosphate, etc.)

Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp.,  
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A. R. Maas Chemical Co., Div. of Victor Chem. Wks.,  
4570 Ardine St., South Gate, Calif.  
Monsanto Chemical Co., St. Louis  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Rumford Chemical Wks., 19 Newman St., Rumford,  
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Shea Chemical Corp., Jeffersonville, Ind.  
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
Westvaco Mineral Prods. Div., Food Machinery & Chem.  
Corp., 161 E. 42nd St., N. Y. 17

## SODIUM PYROPHOSPHATE (see Tetrasodium Pyrophosphate)

## SODIUM SESQUICARBONATE

Diamond Alkali Co., 300 Union Commerce Bldg.,  
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Olin Mathieson Chem. Corp., Baltimore 3  
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Broadway, N. Y.  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem.  
Corp., 161 E. 42nd St., N. Y. 17

## SODIUM SESQUISILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
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Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Jos. Turner & Co., Ridgfield, N. J.  
Virginia-Carolina Chem. Corp., Richmond 8, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

## SODIUM SILICATE

(see also Dealers)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Davison Chemical Co., Baltimore  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Harshaw Chem. Co., 1945 E. 97 St., Cleveland 6  
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## SODIUM SILICOFLUORIDE

American Fluoride Corp., 151 W. 19th St., N. Y.  
Armour Fertilizer Wks., Atlanta, Ga.  
Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chem. Div., Allied Chem. & Dye Corp., 40  
Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Merck & Co., Rahway, N. J.  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Henry Sundheimer, Inc., 103 Park Ave., N. Y.  
Tennessee Corp., Atlanta, Ga.

## SODIUM SULFATE (Glauber's Salt)

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Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Blockson Chem. Co., Joliet, Ill.  
Harshaw Chem. Co., 1945 E. 97 St., Cleveland  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara  
Falls, N. Y.  
Monsanto Chem. Co., St. Louis 4  
Stauffer Chem. Co., 380 Madison Ave., N. Y.  
Jos. Turner & Co., Ridgfield, N. J.  
Penna. Salt Mfg., 3 Penn Center Plaza, Phila.  
West End Chemical Co., 1946 Webster St., Oakland,  
Calif.

## SODIUM SULFITE

E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y. 6  
Mallinckrodt Chemical Wks., St. Louis, Mo.  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate, Calif.  
Prior Chemical Corp., 420 Lexington Ave., N. Y.  
Stauffer Chemical Co., 380 Madison Ave., N. Y.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago  
West End Chem. Co., 1956 Webster St., Oakland, Calif.

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Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington  
General Chemical Div., Allied Chem. & Dye Corp.,  
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#### SOIL FUMIGANTS

Amer. Potash & Chem. Corp., 3030 W. 6 St., Los Angeles  
California Spray-Chemical Corp., Richmond, Calif.  
Dow Chemical Co., Midland, Mich.  
General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Heyden Chemical Corp., 342 Madison Ave., N. Y. 17  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Larvacide Products, Inc., 117 Liberty St., N. Y. 17  
Monsanto Chemical Co., St. Louis  
John Powell & Co., Div. Olin Mathieson Chem. Corp.,  
Baltimore  
Shell Chemical Corp., 50 W. 50 St., N. Y.

#### SOLUBLE OILS (see Sulfonated Oils)

#### SOLVENT, NAPHTHA

Amsco Solvents & Chemicals Co., 4619 Reading Road,  
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Anderson-Prichard Oil Corp., Oklahoma City, Okla.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
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S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh  
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Neville Chemical Co., Pittsburgh  
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ton Lane, Louisville, Ky.  
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Hoosier Solvents & Chemicals Corp., 1650 Luett Ave.,  
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Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Missouri Solvents & Chemicals Co., 419 De Soto Ave.,  
St. Louis 7, Mo.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
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Pennsylvania Refining Co., Butler, Pa.  
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Skelly Oil Co., 605 W. 47th St., Kansas City, Mo.  
Sinclair Refining Co., East Chicago, Ind.  
Southern Solvents & Chemicals Corp., 1352 Jefferson  
Highway, New Orleans 18, La.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Tar Residuals, Inc., 420 Lexington Ave., N. Y.  
Texas Solvents & Chemicals Co., 8501 Market St.,  
Houston 15, Texas  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Western Solvents & Chemicals Co., 6472 Selkirk Ave.,  
Detroit 11, Michigan  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St.,  
Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave.,  
S.W., Grand Rapids 9, Mich.

#### SOLVENTS, CHLORINATED (see also alcohols, coal tar derivatives, etc.)

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Barrett Div., Allied Chem. & Dye Corp., 40 Rector St.,  
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Buffalo Solvents & Chemicals Corp., Box 73, Station B,  
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Dover Chemical Co., Dover, O.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eastman Chemical Prods. Co., Kingsport, Tenn.  
Enjay Co., 15 W. 51st St., N. Y.  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
Hercules Powder Co., 961 Market St., Wilmington (Terpene)  
Hooker Electrochemical Co., 4701 Buffalo Ave., Niagara Falls, N. Y.  
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22, Ind.  
Jefferson Chemical Co., 260 Madison Ave., N. Y. 16  
Koppers Co., Chamber Commerce Bldg., Pittsburgh  
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.  
Monsanto Chemical Co., 1700 2nd St., St. Louis  
Neville Chemical Co., Pittsburgh  
Newport Industries, 230 Park Ave., N. Y.  
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio  
Olin Mathieson Chem. Corp., Baltimore 3  
Penna. Industrial Chem. Corp., Clairton, Pa.  
Reilly Tar & Chemical Corp., Indianapolis  
Sharples Chems. Div., Penna. Salt Mfg. Co., Phila. 2  
Shell Chemical Corp., 50 W. 50th St., N. Y. 18  
Skelly Oil Co., Kansas City, Mo.  
Solvay Process Div., Allied Chem. & Dye Corp., 61 Broadway, N. Y.  
Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.  
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas  
U. S. Industrial Chemicals, Inc., 120 Broadway, N. Y. 5  
Velsicol Corp., 330 E. Grand Ave., Chicago  
Virginia Smelting Co., W. Norfolk, Va.  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11, Michigan  
Westvaco Chlor-Alkali Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## SOLVENTS, OXYGENATED

Buffalo Solvents & Chem. Corp., P. O. # 73, Sta. B, Buffalo  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Enjay Co., 15 W. 51st St., N. Y. 19  
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Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo 7, N. Y.  
Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago 12  
Chemical Solvents Co., 2500 Summit, Kan. City, Mo.  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
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Phillips Petroleum Co., Chemical Prods. Dept., Bartlesville, Okla.  
Shell Oil Co., 50 W. 50th St., N. Y.  
Sinclair Refining Co., 630 5th Ave., N. Y.  
Skelly Oil Corp., 605 W. 47th St., Kansas City, Mo.  
L. Sonneborn Sons, 300—4th Ave., N. Y. 10  
Southern Solvents & Chemicals Corp., 1352 Jefferson Highway, New Orleans 18, La.  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
Standard Oil Co. (Ohio), Midland Bldg., Cleveland  
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas  
Velsicol Corp., 330 Grand Ave., Chicago  
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11, Michigan  
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee 14, Wis.  
Wolverine Solvents & Chemicals Co., 1500 Century Ave., S.W., Grand Rapids 9, Mich.

## SOYA BEAN OIL

(see also *Brokers and Dealers*)

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Balfour, Guthrie Co., 67 Wall St., N. Y.  
Irving R. Boody & Co., 120 Wall St., N. Y.  
Eastern Industries, Inc., Ridgefield, N. J.  
General Mills, 400 2nd Ave. S., Minneapolis 1  
Spencer Kellogg & Son, 98 Delaware Ave., Buffalo, N.Y.  
Pacific Vegetable Oil Co., 3125 E. 26 St., Los Angeles 23  
Purina Mills, St. Louis  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## SOYA BEAN FATTY ACIDS

Archer-Daniels-Midland Co., Roanoke Bldg., Minneapolis, Minn.  
Armour Chem. Div., 1355 W. 31st St., Chicago  
Capital City Prods. Co., P. O. Box 569, Columbus, O.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Emery Industries, 4300 Carew Tower, Cincinnati 2  
General Mills, 400 2nd Ave., South, Minneapolis 1  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Procter & Gamble Dist. Co., Cincinnati 1  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 429 W. 29th St., N. Y. 14  
Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanston St., Phila.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## SPERMACEITI (see Whale Oil)

## SPONGES (Natural, Synthetic)

American Sponge & Chamois Co., 47 Ann St., N. Y.  
American Standard Mfg. Co., 2509 S. Green St., Chicago  
S. M. Arnold, Inc., 1701 Papin St., St. Louis, Mo.  
Atlas Sponge Co., 2520 S. Damen Ave., Chicago 8  
Beverly Mfg. Co., 494 Main St., Boston 29  
E. I. du Pont de Nemours & Co., Wilmington  
Kleenette Mfg. Co., 1160 N. Howe St., Chicago (Metal)  
Kurly Kate Corp., 2215 S. Michigan Ave., Chicago 16  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Schroeder & Tremayne, Inc., 1711 Delmar Blvd., St. Louis 3

## SPOTTING FLUIDS (see Cleaning Fluids)

SPOUTS (see Can Spouts, Closures)

**SPRAY TOWERS** (engineering and installation)

Bowen Engineering, Inc., North Branch, N. J.  
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.  
Meccaniche Moderne, Busto Arsizio, Italy  
Nichols Eng. & Research Corp., 70 Pine St., N. Y.  
Proctor & Schwartz, Inc., 7th St. & Tabor Rd., Phila.  
Foster D. Snell, 29 W. 15 St., N. Y. 11  
Swenson Evaporator Div., Whiting Corp., Whiting, Ill.  
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

**SPRAYER NOZZLES** (see Nozzles)

**SPRAYERS and ATOMIZERS**

Arnold-Copeland Co., 22 Elkins St., So. Boston, Mass.  
Calmar Co., 6800 McKinley Ave., Los Angeles, Calif.  
R. E. Chapin Mfg. Wks., Batavia, N. Y.  
Dobbins Div., Chamberlain Corp., Waterloo, Iowa  
Evans-Crowder Co., South Lyon, Mich.  
Federal Tool Corp., 3600 S. Pratt Blvd., Chicago 45  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11  
D. B. Smith & Co., 414 Main St., Utica, N. Y.  
Wilco Co., 4425 Bandinni Blvd., Los Angeles 23  
Z & W Mach. Prods. Inc., 30240 Lakeland Blvd., Wickliffe, O.

**SPRAYERS, COMPRESSED AIR**

Acmeline Mfg. Co., Traverse City, Mich.  
Champion Sprayer Co., 6523 Heintz Ave., Detroit 11  
R. E. Chapin Mfg. Co., Batavia, N. Y.  
DeVilbiss Co., Toledo, O.  
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
Fumeral Co., Racine, Wis. (built in systems)  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Imperial Brass Co., 1237 W. Harrison St., Chicago  
Lowell Mfg. Co., 589 E. Illinois St., Chicago  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
D. B. Smith & Co., 414 Main St., Utica, N. Y.  
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.  
Universal Metal Prods. Co., Lowell, Mich.

**SPRAYERS, ELECTRIC**

Acmeline Mfg. Co., Traverse City, Mich.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago  
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40  
DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn, N. Y.  
Fumeral Co., Racine, Wis.  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Lowell Mfg. Co., 589 E. Illinois St., Chicago  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
Silver Creek Precision Corp., Silver Creek, N. Y.  
Z & W Mach. Prods., Inc., 30240 Lakeland Blvd., Wickliffe, O.

**SPRAYERS, STEAM**

DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn  
Fumeral Co., Racine, Wis.  
Hydro-Mist Div., Arnold Laboratories, 1515 W. Glenoaks Blvd., Glendale, Calif.  
Lowell Mfg. Co., North Pier Terminal, Chicago  
Madewell Products, Inc., 3125 E. 7th St., Oakland, Calif.  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
Spray, Inc., 218 N. 15th St., East Orange, N. J.

**SPRAYERS (for Fogging)**

Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.  
Curtis Automotive Devices, Bedford, Ind.  
Todd Shipyards Corp., 81-16 45th Ave., Elmhurst, N. Y.  
Silver Creek Precision Corp., Silver Creek, N. Y.

**SPRAYERS, HAND**

Acmeline Mfg. Co., Traverse City, Mich.  
R. E. Chapin Mfg. Co., Batavia, N. Y.  
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa

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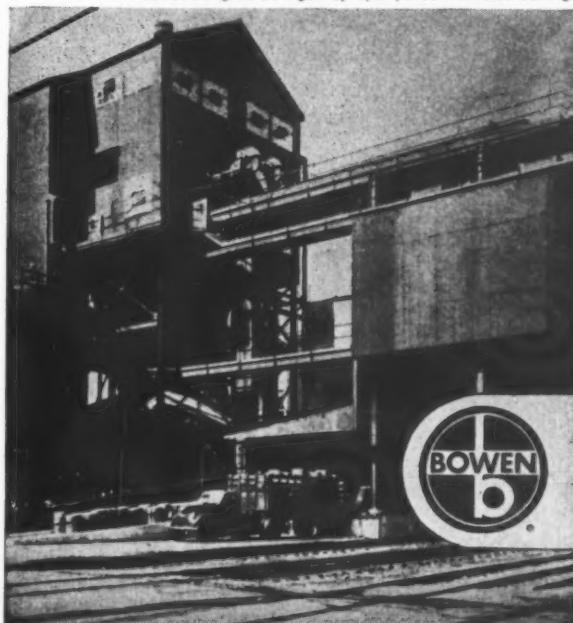
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Lowell Mfg. Co., 589 E. Illinois St., Chicago  
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago  
D. B. Smith & Co., 414 Main St., Utica, N. Y.  
Standard Container, Inc., Rockaway, N. J.  
Universal Metal Prods. Co., Lowell, Mich.  
Volume Sprayer Mfg. Co., Tulsa, Okla.  
Z & W Mach. Prods., Inc., 30240 Lakeland Blvd., Wickliffe, O.

#### SPRAYERS, POWER (Heavy Duty)

John Bean Mfg. Co., Div. Food Mach. Co., Lansing, Mich.  
Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.  
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa  
A. B. Farquhar Co., 142 N. Duke St., York, Pa.  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Hardie Mfg. Co., Hudson, Mich.  
Hurst Industries, Inc., 1849 S. 1st St., San Jose, Calif.  
F. E. Myers & Brothers Co., Ashland, O.  
Silver Creek Precision Co., Silver Creek, N. Y.  
Victor Products Corp., Ranson, W. Va.

#### SPRAY SYSTEMS, PERMANENT INSTALLATIONS

Fumeral Co., Racine, Wisc.  
H. D. Hudson Mfg. Co., 549 E. Illinois St., Chicago 11  
Virginia Smelting Co., West Norfolk, Va.  
Z & W Mach. Prods., Inc., 30240 Lakeland Blvd., Wickliffe, O.

#### SQUEEGEES

Ardmore Mfg. Co., 2500 W. Carmen Ave., Chicago 25  
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago  
Warren Haviland Corp., 1810 Chouteau Ave., St. Louis 3  
W. E. Kautenberg Co., P. O. Box 90, Freeport, Ill.  
Morse-Starrett Products Co., 1204 49th Ave., Oakland, Calif.

Steccone Products Co., 826 71st Ave., Oakland 21, Calif.  
White Mop Wringer Co., Fultonville, N. Y.

#### SQUILLS (Rodent Poison)

A-M-R Chemical Co., 985 E. 35th St., Bklyn. 10  
Chem. Insecticide Corp., 129 Montague St., Bklyn.  
McLaughlin, Gormley, King Co., 1715 5th St., S.E.,  
Minneapolis, Minn.  
S. B. Penick & Co., 50 Church St., N. Y.  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27

#### STAINLESS STEEL CLAD EQUIPMENT (see Clad Equipment)

#### STAINLESS STEEL TANKS (see Tanks)

#### STAIN REMOVERS

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
Davies-Young Soap Co., Dayton, O.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas  
City, Mo.  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Penna. Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Trio Chem. Wks., 341 Scholes St., Brooklyn  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23  
Zeen Chem. Co., 2000 Elm St., NW, Cleveland

#### STANNOUS CHLORIDE (see Tin Crystals)

#### STARCH

(see also Dealers)

American Maize Products Co., 250 Park Ave., N. Y.  
Archer-Daniels-Midland Co., Minneapolis  
Clinton Foods, Corn Processing Division, Clinton, Iowa  
Corn Products Sales Co., 17 Battery Pl., N. Y.



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National Starch Products Co., 270 Madison Ave., N. Y.  
A. E. Staley Mfg. Co., Decatur, Ill.  
Stein, Hall & Co., 285 Madison Ave., N. Y. 17  
Welch, Holme & Clark Co., 439 West St., N. Y.

#### STEARATES (Zinc, Calcium, Magnesium, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div. General Aniline & Film Corp.,  
435 Hudson St., N. Y.  
Archer-Daniels-Midland Co., 2191 W. 110 St., Cleve. 2  
Atlas Powder Co., Wilmington, Del.  
Capital City Prods. Co., P. O. Box 569, Columbus, O.  
Central Solvents & Chems. Co., 2540 W. Flournoy St.,  
Chicago  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Glyco Prods. Co., 350 5th Ave., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
Mallinckrodt Chem. Wks., St. Louis  
Merck & Co., Rahway, N. J.  
Metasap Chem. Co., First & Essex Sts., Harrison, N. J.  
M. W. Parsons, Inc., 59 Beekman St., N. Y.  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Jos. Turner & Co., Ridgefield, N. J.  
Van Dyk & Co., Belleville 9, N. J.  
Charles A. Wagner Co., 813 Callowhill St., Phila. 23  
Warwick Chemical Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St.,  
Milwaukee  
Witco Chemical Co., 122 E. 42 St., N. Y.

#### STEARIC ACID

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C.  
Archer-Daniels-Midland Co., 2191 W. 110 St., Cleve. 2  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Buffalo Solvents & Chem. Corp., P. O. No. 73, Sta. B,  
Buffalo

Capitol City Prods. Co., 525 W. 1st St., Columbus, O.  
Celina Stearic Acid Co., Celina, Ohio  
Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
Darling & Co., 4201 S. Ashland Ave., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
Fine Organics, Inc., 211 E. 19th St., N. Y.  
General Mills, 400 2nd Ave. S., Minneapolis 1  
A. Gross & Co., 295 Madison Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178,  
Newark, N. J.  
Orbis Products Corp., 601 W. 26th St., N. Y.  
Procter & Gamble Dist. Co., Cincinnati  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
F. W. Steadman Co., 59 Pearl Ct., N. Y. 4  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Trendex Div., The Humko Co., P. O. Box 4607, Memphis,  
Tenn.  
Charles A. Wagner Co., 813 Callowhill St., Phila. 23  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Will & Baumer Candle Co., Syracuse, N. Y.  
Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wolverine Solvents & Chems. Co., 1500 Century Ave.,  
SW, Grand Rapids, Mich.  
Woburn Chemical Corp., Harrison, N. J.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

#### STEARINE

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y.  
Archer-Daniels-Midland Co., Minneapolis 2  
Armour Chem. Div., 1355 W. 31 St., Chicago  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, Inc., 4300 Carew Tower, Cincinnati  
A. Gross & Co., 295 Madison Ave., N. Y. 17  
Independent Mfg. Co., Bridesburg P. O., Phila.  
Neats Foot Oil Refineries Corp., E. Ontario & Bath Sts.,  
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Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanson St., Phila.  
G. S. Ziegler & Co., 99 Church St., N. Y. 7  
Zophar Mills, Inc., 112 26th St., Brooklyn, N. Y.

## STEARYL ALCOHOL (see Fatty Alcohols)

## STEEL DRUMS (see Drums, Steel)

## STEEL DRYING ROLLS (see Chilling Rolls)

## STEEL PAILS (see Pails)

## STEEL, WOOL

American Steel Wool Mfg. Co., 41-24 Orchard St., L. I. City, N. Y.  
Brillo Co., 60 John St., Bklyn. 1  
Durawool, Inc., 95-59 222 St., Queens Village, N. Y.  
International Steel Wool Co., Springfield, Ohio  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
S.O.S. Co., 7123 W. 65 St., Chicago 38  
Williams Co., London, Ohio

## STOCK SPRAYS and DIPS (see Cattle Dips and Sprays)

## SUDSING EQUIPMENT (see Soap Solutionizing Devices)

## SULFATED and SULFONATED FATTY ALCOHOLS (and other Non-Soap Organic Detergent Basic materials. (See also Detergents, Synthetic)

Aceto Chem. Co., 40-40 Lawrence Ave., Flushing, N. Y.  
American Alcolac Corp., 3440 Fairfield Rd., Balto.  
Archer-Daniels-Midland Co., Minneapolis 2  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Dehydtag Deutsche Hydrierwerke, Henkel Strasse 67, Dusseldorf, Germany  
E. I. du Pont de Nemours Co., Wilmington, Del.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Geigy Industrial Chems., 89 Barclay St., N. Y. 8  
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Maywood Chemical Works, Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Onyx Oil & Chemical Co., Warren & Morris Sts.  
Nopco Chemical Co., First & Essex Sts., Harrison, N. J.  
Jersey City 2  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Procter & Gamble Co., Cincinnati  
Raymond Laboratories, Inc., 261 E. 5 St., St. Paul, Minn.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 19  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## SULFONATED OILS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div., General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Archer-Daniels-Midland Co., Minneapolis 2  
Atlantic Refining Co., 260 S. Broad St., Phila.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eastern Industries, Inc., Ridgefield, N. J.  
Emery Industries, 4300 Carew Tower, Cincinnati  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Neats Foot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.

Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2

Royce Chem. Co., Carlton Hill, N. J.  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Shell Chemical Corp., 50 W. 50 St., N. Y. 20  
L. Sonneborn Sons, 300—4th Ave., N. Y. 10  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island City, N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## SULFOXYLATES (Soap Bleaches)

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Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.  
Royce Chem. Co., Carlton Hill, N. J.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

## SULFURIC ACID (See Acids)

## SURFACE ACTIVE AGENTS (see Wetting Agents)

## SURGICAL SOAPS (see Potash Soaps)

## SWEEPING COMPOUNDS

Badger Plug Co., Appleton, Wis.  
Capitol Soap Corp., Colfax Ave., Clifton, N. J.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Creco Co., Inc., Creco Bldg., Long Island City, N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Fitch Dustdown Co., 801 S. Howard St., Baltimore  
Fuld Bros. 702 S. Wolfe St., Baltimore  
R. M. Hollingshead Corp., Camden, N. J.  
Hysan Products Co., 932 W. 38th Place, Chicago  
Klix Chem. Co., 551 Railroad St., San Francisco  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
Natl. Sawdust Co., 69 N. 6th St., Bklyn.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Port Huron Detergent Co., Port Huron, Mich.  
Puritan Chem. Co., 916 Ashby St., N.W., Atlanta  
Sanco Prods. Inc., Greenville, O.  
S. & S. Soap Co., 815 E. 135 St., N. Y. 54  
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.  
Surety Laboratories, 3946 Olive St., St. Louis  
Sweeping Compound Mfrs. Co., 421 Broome St., N. Y.  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.

## SYNTHETIC DETERGENTS (see Detergents)

## TABLET MANUFACTURE (for the trade)

Academy Mfg. Drug Corp., 544 E. 171 St. N. Y. 57  
Arner Co., Buffalo 3, N. Y.  
Frontier Chem. Products, Inc., 119 E. Soper St., St. Louis 11  
Strong, Cobb & Co., Cleveland 4, Ohio

## TALC

Blue Ridge Talc Co., Henry, Va.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Eastern Magnesia Talc Co., Burlington, Vt.  
Georgia Talc Co., Asheville, N. C.  
Los Angeles Talc Co., Los Angeles, Cal.  
Natura Minerals Co., 108 W. 6th St., Los Angeles  
Orbis Products Corp., 601 W. 26th St., N. Y.  
Pacific Coast Talc Co., Los Angeles, Cal.  
James H. Rhodes & Co., 157 W. Hubbard St., Chicago  
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10  
L. A. Salomon & Bro., 216 Pearl St., N. Y.  
Tamms Industries, Inc., 228 N. LaSalle St., Chicago  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Chas. A. Wagner Co., Inc., 813 Callowhill St., Phila. 23  
Welch, Holme & Clark Co., Inc., 439 West St., N. Y.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.  
Wyodak Chemical Co., 4600 E. 71st St., Cleveland

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Amso Solvents & Chems. Co., 4619 Reading Rd., Cincinnati



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Arizona Chemical Co., 30 Rockefeller Plaza, New York  
Brunswick Pulp & Paper Co., Brunswick, Ga.  
Buffalo Solvents & Chem. Corp., P. O. No. 73, Sta. B, Buffalo  
Camp Manufacturing Co., Franklin, Va.  
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
Champion Paper & Fibre Co., Canton, N. C.  
Concord Chemical Co., 205 S. 2 St., Camden 1, N. J.  
Continental Can Co., Hummel-Ross Division, Hopewell, Va.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
Crossett Chemical Co., Crossett, Ark.  
Gaylord Container Corp., 111 N. 4th St., St. Louis  
General Mills, 400 2nd Ave. S., Minneapolis  
Gulf States Paper Co., Tuscaloosa, Ala.  
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
Hudson Pulp & Paper Co., 477 Madison Ave., N. Y. 22  
Missouri Solvents & Chems. Co., 419 DeSoto St., St. Louis  
National Container Corp., 7 Central Park West, N. Y. 23  
National Southern Products Corp., Tuscaloosa, Ala.  
Newport Industries, Inc., 230 Park Avenue, New York  
North Carolina Pulp Co., Camden, N. J.  
Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles 23  
Southern Advance Bag & Paper Div., 38 Newbury St., Boston  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Union Bag & Paper Corp., 233 Broadway, New York  
Welch, Holme & Clark Co., 439 West St., N. Y. 14  
West Virginia Pulp & Paper Co., 230 Park Ave., New York  
Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
Wolverine Solvents & Chems. Co., 1500 Century Ave., Grand Rapids, Mich.

## TALL OIL FATTY ACIDS

Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati  
Arizona Chemical Co., 30 Rockefeller Plaza, N. Y.  
Armour Chemical Division, 1355 W. 31st St., Chicago  
Central Solvents & Chems. Co., 2540 Flournoy St., Chicago  
Darling & Co., 4201 S. Ashland Ave., Chicago 9  
Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
National Southern Products, Tuscaloosa, Ala.  
Newport Industries, Inc., 230 Park Ave., N. Y. 17  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Union Bag & Paper Corp., 233 Broadway, N. Y. 4  
Welch, Holme & Clark Co., 439 West St., N. Y.  
West Virginia Pulp & Paper Co., 230 Park Ave., N. Y. 17  
G. S. Ziegler & Co., 99 Church St., N. Y. 7

## TALLOW AND GREASE

(see also Brokers and Dealers)

Armour Chem. Div., 1355 W. 31st St., Chicago  
Belleville Rendering Co., Belleville, Ill.  
Consolidated Rendering Co., 178 Atlantic Ave., Boston  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Cudahy Packing Co., 221 N. LaSalle St., Chicago  
Darling & Co., 4201 S. Ashland Ave., Chicago  
Eastern Industries, Inc., Ridgefield, N. J.  
Independent Mfg. Co., Bridesburg P. O., Phila.  
Long Island Soap Co., 27 Bridgewater St., Brooklyn  
Louisville Butchers' Hide & Tallow Co., Louisville, Ky.  
Neats Foot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.  
Newman Tallow & Soap Mach. Co., 1051 W. 35th, Chicago  
Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Waltham Tallow Co., Waltham, Mass.  
Welch, Holme & Clark Co., Inc., 439 West St., N. Y.  
Wilson-Martin Div., Wilson & Co., Snyder Ave. & Swanson St., Phila.  
Wessel-Duval & Co., 67 Broad St., N. Y. C.

## TALLOW CHIP SOAP (see Chip Soaps)

## TALLOW OIL

(see also Brokers and Dealers)

Armour Chem. Div., 1355 W. 31st St., Chicago  
Consolidated Rendering Co., 40 N. Market St., Boston  
Cudahy Packing Co., 111 W. Monroe St., Chicago  
Eastern Industries, Inc., Ridgefield, N. J.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Independent Mfg. Co., Bridesburg P. O., Phila.  
Neats Foot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.  
Norco Prods. Co., E. Ontario & Bath Sts., Phila.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Theobald Industries, P. O. Box 72, Harrison, N. J.  
Waltham Tallow Co., Waltham, Mass.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
West Coast Fert. & Rendering Co., Los Angeles  
Wilson & Co., Union Stock Yards, Chicago

## TANKS (Stainless Steel)

Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.  
Aisop Engineering Corp., Milford, Conn.  
Atlas Steel Construction Co., Irvington, N. Y.  
Bennett Industries, Peotone, Ill.  
S. Buckman, Inc., 12 Gregory Ave., Weehawken, N. J.  
Builders Sheet Metal Works, 108 Wooster St., N. Y. 12  
Conn & Co., Warren, Pa.  
J. H. Day Co., 1143 Harrison Ave., Cincinnati  
Edge Moor Iron Wks., Edge Moor, Del.  
Empaco Industries, 2404 S. Michigan Ave., Chicago  
Graver Tank & Mfg. Corp., 332 S. Michigan, Chicago  
Houchin Machinery Co., Hawthorne, N. J.  
Industrial Process Engineers, 8 Lister Ave., Newark 5 N. J.  
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.  
J. M. Lehmann Co., 506 New York Ave., Lyndhurst, N. J.  
Littleford Bros., 453 E. Pearl St., Cincinnati  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (Used)  
Lukens Steel Corp., Coatesville, Pa.  
M.H.M. Co., 191 Berry St., Brooklyn  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Petroleum Iron works, Sharon, Pa.  
Pfaudler Co., 1000 West St., Rochester, N. Y.  
Pioneer Tank & Boiler Co., Tulsa, Okla.  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Read Standard Corp., York, Pa.  
Geo. G. Rodgers Co., 2401 Third Ave., N. Y.  
Sprout, Waldron & Co., Muncy, Pa.  
Struthers-Wells Corp., Warren, Pa.

## TANKS (Wooden)

Atlantic Tank & Barrel Co., North Bergen, N. J.  
Conn & Co., Warren, Pa.  
Hauser-Stander Tank Co., Ivorydale, Cinn.  
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J. (Mixing)  
New England Tank & Tower Co., Everett, Mass.  
Pacific Tank & Pipe Co., 334 Market St., San Francisco  
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh  
Sprout, Waldron & Co., Muncy, Pa.  
Tippett & Wood, Phillipsburg, N. J.

## TAR ACID OIL (see Coal Tar Raw Materials)

## TAR ACIDS, High Boiling

American-British Chem. Supplies, Inc., 180 Madison Ave., N. Y.  
Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.  
Concord Chemical Co., 205 S. 2 St., Camden 1, N. J.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh, Pa.  
Merichem Co., 3201 Fannin St., Houston 4, Tex.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Neville Chemical Co., Pittsburgh

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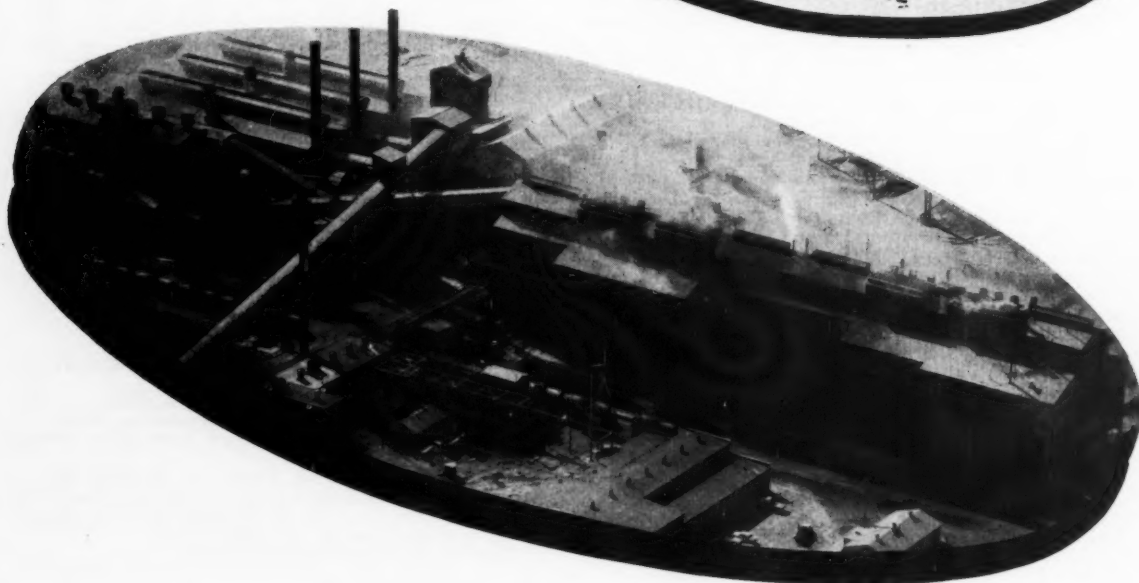
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## TAR ACIDS (Contd.)

Reilly Tar & Chem. Co., Merchants Bank Bldg., Indianapolis  
Tar Residuals, Inc., 420 Lexington Ave., N. Y. 17  
Shell Chemical Corp., 50 W. 50th St., N. Y.

## TEASEED OIL

T. G. Cooper & Co., 2400 E. Venango St., Phila. 34  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
Eastern Industries, Inc., Ridgefield, N. J.  
Pacific Vegetable Oil Corp., 3125 E. 26 St., Los Angeles  
E. M. Sergeant Chemical Co., 7 Dey St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y. 14

## TERPINEOL

(see also *Essential Oils*)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3  
Crosby Chemicals, Inc., Picayune, Miss.  
Dodge & Olcott, Inc., 180 Varick St., N. Y.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.  
Firmenich, Inc., 250 W. 18th St., N. Y.  
Florasynt Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsche Bros., 76—9th Ave., N. Y. 11  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Hercules Powder Co., 961 Market St., Wilmington  
Magnus, Mabree & Reynard, 16 Desbrosses St., N. Y. 13  
Newport Industries, 230 Park Ave., N. Y.  
Polak's Frutal Works, 33 Sprague St., Middletown, N.Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.  
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

TESTING (see *Laboratories, Testing*)

## TETRASODIUM PYROPHOSPHATE

Blockson Chemical Co., Joliet, Ill.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570 Ardine St., South Gate, Calif.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Rumford Chem. Wks., Rumford, R. I.  
Shea Chem. Corp., Jeffersonville, Ind.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chem. Corp., Richmond 5, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem. Corp., 161 E. 42nd St., N. Y.

## TEXTILE SOAPS and SPECIALTIES

American Soap & Washoline Co., Cohoes, N. Y.  
Armour Industrial Soap Dept., Chicago 9  
Beach Soap Co., Lawrence, Mass.  
Chem. Service Co. of Baltimore, Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Eagle Soap Corp., Huntington, Ind.  
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
Emulsol Chem. Corp., 59 E. Madison St., Chicago  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
H. Kohnstamm & Co., 91 Park Pl., N. Y.  
Laurel Soap Mfg. Co., Tioga St., Phila.  
Long Island Soap Co., 29 Bridgewater St., Brooklyn  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chemical Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.



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National Milling & Chemical Co., 4601 Nixon St., Phila. 27  
National Soap Co., 357 South 26th St., Tacoma, Wash.  
National Southern Products, Tuscaloosa, Ala.  
Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2  
Original Bradford Soap Wks., West Warwick, R. I.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati  
Refined Prods. Corp., Lyndhurst, N. J.  
Rome Soap Mfg. Co., N. Y.  
Royce Chem. Co., Carlton Hill, N. J.  
Sanders Chem. Co., 2205 N. American St., Phila. 23  
Sandoz Chemical Works, 61 Van Dam St., N. Y.  
Schoeller Bros., 3301 Amber St., Philadelphia  
Standard Soap Co., Div., Concord Chem. Co., 205 S. 2 St., Camden, Div.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Union Stock Yards, Chicago  
Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J.  
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.  
Warwick Chemical Co., 10 St. & 44th Ave., Long Island City, N. Y.  
Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.  
Allen B. Wrisley Co., 801 W. 65th St., Chicago, Ill.

## THALLIUM SULFATE

Bershire Chemicals, Inc., 420 Lexington Ave., N. Y. 17  
Idico Prods. Co., 1 W. 125 St., N. Y. 27  
Foote Mineral Co., 1609 Summer St., Phila.  
Merck & Co., Rahway, N. J.  
Pfaltz & Bauer, Inc., 350-5th Ave., N. Y.  
Robeco Chems., Inc., 23 E. 26th St., N. Y.

## THEATRE SPRAYS (Deodorant Sprays)

Ampion Corp., 4-88 47 Ave., Long Island City, N. Y.  
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10  
Baird & McGuire, Inc., Holbrook, Mass.  
Banner Chemical Prod., Co., 9 Calumet St., Newark, N. J.  
Baums Castorine Co., 200 Mathew St., Rome, N. Y.  
Bilco Chemical Co., 607 Degraw St., Bklyn.  
Boston Chemical Industries, 64 E. Brookline St., Boston  
Brilco Labs., 1553-63rd St., Bklyn.  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago  
Clifton Chemical Co., 62 William St., N. Y.  
Eagle Soap Corp., Huntington, Ind.  
Elkay Products Corp., 323 W. 16th St., N. Y.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
James Good Co., 2107 Susquehanna Ave., Phila.  
Higley Chemical Co., Dubuque, Iowa  
Hunt Mfg. Co., Lisbon Rd., Cleveland  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.  
Midland Labs., Dubuque, Ia.  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Rex-Cleanwall Corp., Brazil, Ind.  
Rochester Sanitary Prods. Co., Rochester, N. Y.  
I. Schneid, Inc., 916 Ashby St., NW, Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
E. B. Snyder Laboratories, 2137 E. Harold St., Phila.  
Trio Chem. Wks., 341 Scholes St., Bklyn. 6  
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis 15  
Victory Chem. Co., 148 Fairmount Ave., Phila.  
Williams Chem. Co., 487 Broadway, N. Y. 13

## THYMOL (see Aromatic Chemicals)

## TIN CRYSTALS (Stannous Chloride)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97 St., Cleveland  
Metal & Thermit Corp., 120 Broadway, N. Y.

## TITANIUM OXIDE (for toilet soaps)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20  
E. I. du Pont de Nemours & Co., Wilmington Del.  
Robeco Chemicals, Inc., 25 E. 26 St., N. Y.  
Titanium Pigment Co., 111 Broadway, N. Y.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y.  
Whittaker, Clark & Daniels, 260 W. Bway., N. Y.  
Witco Chemical Co., 122 E. 42 St., New York

## TOILET PAPER

A. P. W. Paper Co., Albany, N. Y.  
Bay West Paper Co., Green Bay, Wis.  
Brown Co., Portland, Me.  
Hoberg Paper & Fiber Co., Green Bay, Wisc.  
Scott Paper Co., Chester, Pa.  
Straubel Paper Co., Green Bay Wisc.  
Victoria Paper Mills Co., Fulton, N. Y.  
Wheeler Paper Co., 299 Madison Ave., N. Y.

## TOILET PAPER HOLDERS

A. P. W. Paper Co., Albany, N. Y.  
Atlas Mills, 530 Boston Ave., Medford, Mass.  
Bennett Mfg. Co., Alden, N. Y.  
Franklin Metal Prods. Co., 1500 S. Wabash Ave., Chicago  
Palmer Fixture Co., Waukesha, Wisc.  
Scott Paper Co., Chester, Pa.  
Shore Metal Products, 2881 E. Pico, Los Angeles

## TOILET PREPARATIONS (Private Label)

(see also Bath Salts, Shampoos, etc.)

A.M.R. Chem. Co., 985 E. 35 St., Bklyn.  
Avon Products, Inc., Suffern, N. Y.  
G. Barr & Co., 3601 S. Racine Ave., Chicago  
Fuld Bros., 702 S. Wolfe St., Baltimore 3  
R. Gesell, Inc., 200 W. Houston, N. Y.  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
National Laboratories, 4934 Lewis Ave., Toledo, O.  
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.  
Propel Chemicals, Inc., 415 Lexington Ave., N. Y.  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Shores Co., Cedar Rapids, Ia.  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

## TOILET SEAT COVERS

Clark Paper Converting Corp., 5851 Holmes Ave., Los Angeles 1  
Consolidated Cover Co., 15 Williams Ave., San Francisco  
Lorco Industries, Clarke & Hornet Sts., Cincinnati  
Morton Mfg. Co., 5105 W. Lake St., Chicago  
Sani-Gard Mfg. Co., 240 W. Ave., Twenty Six, Los Angeles 31  
Potlatch Forests, Inc., 1450 W. Holt St., Pomona, Calif.

## TOILET SOAP BASE (for Cakes)

Armour & Co., 1355 W. 31st St., Chicago  
Duveen Soap Corp., 36-14 35 St., Long Island City 6, N. Y.  
J. Eavenson & Sons, Camden, N. J.  
Hewitt Soap Co., Dayton, O.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.  
Nopco Chem. Co., First & Essex Sts., Harrison, N. J.  
Peck's Products, 610 E. Clarence Ave., St. Louis  
Procter & Gamble Dist. Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
Swift & Co., Chicago 9  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.

## TOILET SOAPS, CAKE (Private Label)

Armour & Co., 1355 W. 31st St., Chicago  
Baum's Castorine Co., Rome, N. Y.  
Brunswick Soap Co., 240 Plymouth St., N. Y.

#### TOILET SOAPS, PRIVATE LABEL (Contd.)

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago  
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22  
Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.  
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.  
Haag Labs., Inc., 14000 S. Seeley Ave., Blue Island, Ill.  
Hewitt Soap Co., Dayton, O.  
Lever Bros. Co., 390 Park Ave., N. Y.  
Long Island Soap Co., 29 Bridgewater St., Brooklyn  
Lightfoot Schultz Co., 380 Madison Ave., N. Y.  
Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Cal.  
National Soap Co., Box 1613, Tacoma, Wash.  
North Coast Soap & Chem. Wks., Seattle, Wash.  
Procter & Gamble Co., Cincinnati  
Schmidt Soap Products Co., 236 W. North Ave., Chicago  
John T. Stanley Co., 642 W. 30th St., N. Y.  
Swift & Co., Chicago  
Warren Soap Mfg. Co., Brighton, Mass.  
Wolf Creek Soap Co., Dayton, Ohio  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### TOOTH PASTE (Private Label)

Avon Products, Inc., Suffern, N. J.  
R. Gesell, Inc., 200 W. Houston St., N. Y.  
Old Empire, Inc., Mt. Prospect & Verona Ave.,  
Sheffield Tube Corp., New London, Conn.  
John T. Stanley Co., 642 W. 30th St., New York  
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

#### TOWEL DISPENSERS

Acorn Paper Co., 2145 Baker St., San Francisco  
Bennett Mfg. Co., Alden, N. Y.  
Brown Co., Portland, Me.  
Dash Metal Prods. Co., 260 47th St., Brooklyn, N. Y.  
Palmer Fixture Co., Waukesha, Wis.

Shore-Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles  
Scott Paper Co., Chester, Pa.  
Towel Saver, Inc., 2816 E. 11th St., Los Angeles, Cal.  
United Metal Cabinet Corp., 14th & Laurel St., Pottsville, Pa.

#### TOWELS, PAPER

Acorn Paper Co., 2145 Baker St., San Francisco  
A. P. W. Paper Co., Albany, N. Y.  
Brown Co., Portland, Me.  
Hoberg Paper & Fiber Co., Green Bay, Wisc.  
Scott Paper Co., Chester, Pa.  
Straubel Paper Co., Green Bay, Wisc.  
Victoria Paper Mills Co., Fulton, N. Y.  
Wheeler Paper Co., 299 Madison Ave., N. Y.

#### TOXAPHENE

Hercules Powder Co., 961 Market St., Wilmington, Del.

#### TOXAPHENE FORMULATIONS (Bases and Finished Sprays and Powders)

Acock Laboratories, 2700 E. 5th St., Austin, Tex.  
Agricultural Chemical Co., 18th & E. Jackson Sts., Phoenix, Ariz.  
Agricultural Sulphur & Chem. Co., 417 N. Perry St., Montgomery, Ala.  
Ashcraft-Wilkinson Co., Trust Co. of Georgia Bldg., Atlanta, Ga.  
Balcom Industries, 600-601 Tenth St., Greeley, Colo.  
California Spray-Chemical Corp., Richmond, Calif.  
Central Chem. Co., 49 N. Jonathan St., Hagerstown, Md.  
Chapman Chem. Co., 38 Court St., Memphis, Tenn.  
Chipman Chem. Co., Bound Brook, N. J.  
William Cooper & Nephews, 1909 Clifton St., Chicago  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Douglas Chem. Co., 620 E. 16 Ave., North Kansas City, Mo.  
Durham Chem. Co., 4124 E. Pacific Way, Los Angeles

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*deodorant soap*  
*soap granules*  
*detergent granules*  
*liquid detergent*  
*industrial soaps*

**THE HEWITT SOAP COMPANY, INC.**

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#### TOXAPHENE FORMULATIONS (Contd.)

Flag Sulphur & Chem. Co., Tampa, Fla.  
Florida Agricultural Supply Co., Box 658,  
Jacksonville, Fla.  
Food Machy. Corp., Niagara Sprayer & Chem. Div.,  
Middleport, N. Y.  
Fresno Agricultural Chem. Co., Fresno, Calif.  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
General Chem. Div., Allied Chem. & Dye Corp. 40  
Rector St., N. Y. 6  
Georgia-Carolina Oil Co., 1403 Sixth St., Macon, Ga.  
Hayes-Sammons Co., Mission, Texas  
Kwik-Way Chem. Co., Box 2536, San Antonio, Texas  
O. E. Linck Co., Route 6 & Valley Rd., Clifton, N. J.  
McConnon and Co., Winona, Minn.  
McLaughlin, Gormley, King Co., 1715 S. E. 5th St.,  
Minneapolis  
C. J. Martin & Sons, 413 Chicon St., Austin, Texas  
Naco Fertilizer Co., Box 858, Charleston, S. C.  
Naugatuck Chem. Div., U. S. Rubber Co., Naugatuck,  
Conn.  
Pennsylvania Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Phoenix Chem. Co., 19th Ave., & Roosevelt,  
Phoenix, Ariz.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg.,  
Pittsburgh  
Plainsman Supply Co., Plainview, Texas  
Port Fertilizer & Chem. Co., Los Fresnos, Texas  
John Powell & Co., Div. Olin Mathieson Chem. Corp.,  
Baltimore  
Prentiss Drug & Chem. Co., 110 Williams St., N. Y.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Ralston Purina Co., 835 S. 8th St., St. Louis  
Reasor-Hill Corp., Jacksonville, Ark.  
Riverdale Chem. Co., 324-174th St., Harvey, Ill.  
Shell Chemical Corp., 460 Park Ave., N. Y.  
Sherwin-Williams Co., 101 Prospect Ave., N.W.,  
Cleveland  
Southwest Co-operative Wholesale, 1821 E. Jackson St.,  
Phoenix, Ariz.

Stauffer Chem. Co., 380 Madison Ave., New York  
Thompson-Hayward Chemical Co., 2915 S. W. Blvd.,  
Kansas City, Mo.  
Tyner-Petrus Co., 100 Trenton St., West Monroe, La.  
F. H. Vahlsing, Inc., Elsa, Texas  
Woolfolk Chemical Works, Fort Valley, Ga.

#### TRASH CARTS

Atlantic Stamping Co., 156 Ames St., Rochester, N. Y.  
Federal Fibre Corp., 3704 70th Ave., Long Island City  
1, N. Y.  
Gennett & Sons, 1 Main St., Richmond, Ind.  
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago  
F. H. Lawson Co., Evans & Whatley Sts., Cincinnati 4  
W. J. McElmoyl Co., Groverville, N. J.  
Palmer Fixture Co., Waukesha, Wisc.  
Witt Cornice Co., 2138 Winchell Ave., Cincinnati

#### TRIETHANOLAMINE (see Ethanolamines)

#### TRIETHANOLAMINE SOAPS

Chem. Service of Balto., Howard & West Sts., Balto.  
Chicago Sanitary Prods., 3100 S. Throop St.,  
Chicago 8  
Continental Oil Co., 630 5th Ave., N. Y. 20  
Davies-Young Soap Co., Dayton, O.  
Dominion Prods., Inc., 10-40 44 Drive, Long Island City  
1, N. Y.  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
Fuld Bros. Inc., 702 S. Wolfe St., Baltimore  
General Biochemicals, Inc., Chagrin Falls, O.  
James Good, Inc., 2107 E. Susquehanna Ave., Phila.  
Hysan Prods. Co., 932 W. 38th Place, Chicago  
Kranich Soap Co., 60 Richards St., Bklyn.  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St.  
Camden, N. J.  
George Stearns Chem. Corp., 4200 E. Mendota St.,  
Madison, Wisc.  
Trio Chemical Wks., 341 Scholes St., Bklyn. 6

#### TRIPOLYPHOSPHATES (see Sodium Tripolyphosphate)

## ESPECIALLY FINE PRIVATE BRAND SOAPS



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## TRISODIUM PHOSPHATE

(see also *Brokers and Dealers*)

Amer. Agricultural Chem. Co., 50 Church St., N. Y.  
Blockson Chemical Co., Joliet, Ill.  
General Chemical Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland  
A. R. Maas Chem. Co., Div. of Victor Chem. Wks., 4570  
Ardine St., South Gate Calif.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17  
Rumford Chem. Wks., Rumford, R. I.  
Shea Chem. Corp., Jeffersonville, Ind.  
Jos. Turner & Co., Ridgefield, N. J.  
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6  
Virginia-Carolina Chemical Corp., Richmond, Va.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Westvaco Mineral Prods. Div., Food Machy. & Chem.  
Corp., 161 E. 42nd St., N. Y.

## TUBE FILLING MACHINERY (see Filling Machy., Tube)

## TUBES (Collapsible)

Aluminum Company of America, Gulf Bldg., Pittsburgh  
Art Tube Co., Irvington, N. J.  
Continental Can Co., 100 E. 42 St., N. Y. 17  
Globe Collapsible Tube Corp., 28 Columbia Heights,  
Brooklyn, N. Y.  
National Collapsible Tube Co., Providence, R. I.  
Peerless Tube Co., Bloomfield, N. J.  
Sheffield Tube Co., New London, Conn.  
Sun Tube Corp., 181 Long Ave., Hillside, N. J.  
Victor Metal Products Corp., 193 Newel St., Bklyn.  
White Metal Mfg. Co., 1012 Grand St., Hoboken, N. J.  
A. H. Wirz, Inc., Chester, Pa.

## TUBES (Celluloid, Acetate, Plastic, etc.)

Bradley Container Corp., Maynard, Mass.  
Lusteriod Container Co., So. Orange, N. J.  
Hygienic Tube Co., Newark, N. J.  
W. C. Ritchie & Co., 8880 Baltimore Ave., Chicago

## TUNG OIL

Archer-Daniels-Midland Co., Minneapolis, Minn.  
Atkins Kroll & Co., 320 California St., San Francisco 4  
Balfour Guthrie & Co., 67 Wall St., N. Y. 5  
Biddle Sawyer Corp., 20 Vesey St., N. Y. 7  
Brown-Allen Chemicals, Inc., Port Richmond, Staten  
Island, N. Y.  
Geo. Degen & Co., 111 Broadway, N. Y. 6  
W. R. Grace & Co., 7 Hanover Sq., N. Y. 5  
Internatio Rotterdam, Inc., 61 Broadway, N. Y. 6, N. Y.  
Pacific Veg. Oil Corp., 3125 E. 26 St., Los Angeles 23  
Texas Solvents & Chem. Co., 8501 Market St., Houston  
Wah Chang Trading Corp., 233 Broadway, N. Y. 7  
G. A. Wharry & Co., 125 Broad St., N. Y.  
Woburn Chemical Corp., Harrison, N. J.

## TURPENTINE

American Turpentine Farmers Association, Valdosta,  
Ga.  
Antwerp Naval Stores Co., Savannah, Ga.  
Camp Mfg. Co., Franklin, Va.  
Continental Turp. & Rosin Corp., Laurel, Miss.  
Crosby Chemicals, Inc., Picayune, Miss.  
Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)  
Georgia Rosin Prods. Co., Brunswick, Ga.  
Glidden Co., Naval Stores Div., P. O. Box 389, Jackson-  
ville, Fla.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Newport Industries, Inc., 230 Park Ave., N. Y.  
Phoenix Naval Stores Co., Gulfport, Miss. (wood)  
West Virginia Pulp & Paper Co., 230 Park Ave., N. Y.  
17

## UBATOL

Union Bay State Chem. Co., 491 Main St., Cambridge,  
Mass.

## UNSCRAMBLERS, ROTARY AND STRAIGHT (for cans and bottles)

Chisholm Ryder Co. of Pa., Hanover, Pa.  
Filpaco Industries, 2464 S. Michigan Ave., Chicago 16  
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4  
Horney & Co., 420 Lexington Ave., N. Y.  
Island Equipment Corp., 27-01 Bridge Plaza N.,  
L. I. C., N. Y.  
M. R. M. Co., 191 Berry St., Bklyn.  
Standard-Knapp Div., of Emhart Mfg. Co., Portland,  
Conn.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

## UREA

E. I. du Pont de Nemours & Co., Wilmington, Del.  
Grace Chemical Co., 3 Hanover Sq., N. Y.  
Nitrogen Div., Allied Chem. & Dye Corp., 40 Rector St.,  
N. Y.

## URNS (see Sand Urns)

## USED MACHINERY AND EQUIPMENT

Brill Equipment Corp., 2401 Third Ave., N. Y.  
Chemical & Process Machy. Corp., 146 Grand St.,  
N. Y. 13  
Consolidated Products Co., 59 Garden St., Hoboken, N. J.  
Emsco Equipment Co., 39 Hyatt Ave., Newark, N. J.  
J. L. Ferguson Co., Joliet, Ill.  
First Machy. Corp., 209 10th St., Bklyn.  
Houchin Machinery Co., Hawthorne, N. Y.  
Jasper Machy. Co., 282 Sixth St., Bklyn 15  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst,  
N. J.  
Loeb Equipment Supply Co., 810 W. Superior Ave.,  
Chicago  
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,  
Chicago  
Perry Equipment Corp., 1515 W. Thompson St., Phila.  
21, Penna.  
Prater Pulverizing Co., 1825 S. 55th Ave., Chicago  
Chas. Ross & Son Co., 150 Classon Ave., Bklyn. 5, N. Y.  
Stein Equipment Co., 107-8th St., Bklyn. 15  
Union Standard Equipment Co., 318 Lafayette St.,  
N. Y. 12

## VACUUM CLEANERS (Heavy Duty)

American Floor Surfacing Mach. Co., 561 S. St. Clair  
St., Toledo, O.  
Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave.,  
Chicago  
Clarke Sanding Machine Co., Muskegon, Mich.  
Columbus-Dixon, Inc., 21 West St., N. Y.  
Doyle Vacuum Cleaner Co., 225 Stevens St.,  
Grand Rapids 2, Mich.  
General Floorcraft, Inc., 421 Hudson St., N. Y.  
Hild Floor Machine Co., 740 W. Washington St.,  
Chicago, Ill.  
Holt Manufacturing Co., 669 20 St., Oakland, Calif.  
Kent Co., 426 Canal St., Rome, N. Y.  
Lincoln-Schlueter Floor Machinery Co., 1250 W. Van  
Buren St., Chicago  
Multi-Clean Prods., 2277 Ford Pkwy., St. Paul  
National Super Service Co., Toledo 2, O.  
Ponsell Floor Machine Co., 220 W. 19th St., N. Y. 11  
Premier Co., 755 Woodlawn Ave., St. Paul, Minnesota  
Pullman Vacuum Cleaner Corp., 25 Buick St., Boston 15  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil,  
Indiana  
United Floor Machine Co., 7715 S. Chicago Ave., Chicago

## VALVES, for Aerosol Dispensers

Aerated Container Corp., 39 LaSalle St., Chicago 3  
Aerosol Research Co., 743 Circle Ave., Forest Park, Ill.  
Calmar Co., 6800 McKinley Ave., Los Angeles, Calif.  
Clayton Corp., 4205 Forest Park Blvd., St. Louis 8, Mo.  
Delta Dynamics, Inc., 1850 N. River Rd., Melrose Park,  
Ill.  
Demert & Dougherty, 3001 W. 47th St., Chicago  
Dill Manufacturing Co., 700 E. 82nd St., Cleveland, Ohio  
Paul Engstrom Associates, Washington, D. C.



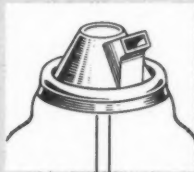
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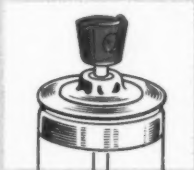
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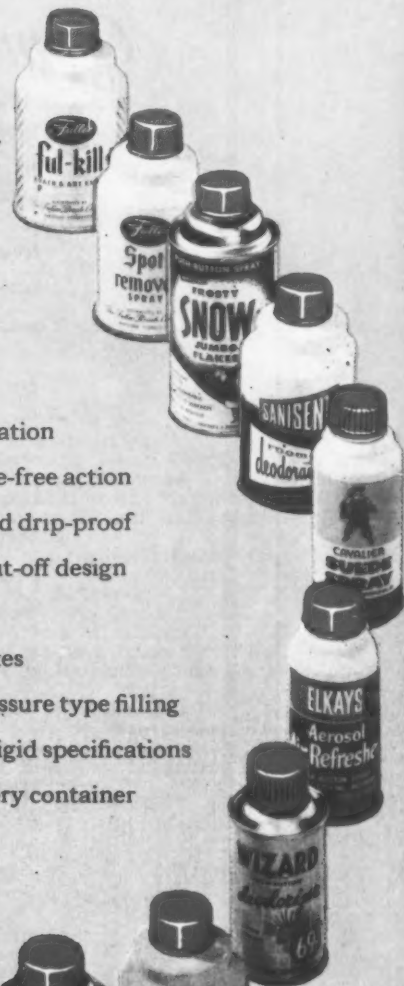
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## VALVES, AEROSOL (Contd.)

Nanuet Valve Co., Rt. 59, Nanuet, N. Y.  
Newman-Green Co., 507 Interstate Rd., Addison, Ill.  
Oil Equipment Laboratories, 600 Pearl St., Elizabeth N. J.  
Precision Valve Corp., 700 Nepperhar Ave., Yonkers, N. Y.  
Pressure-Pack, Inc., 18550 Mack Ave., Detroit, Mich.  
Risdon Manufacturing Co., Naugatuck, Conn.  
Ronor Corp., 1360 W. 9th St., Cleveland, Ohio  
A. Schrader's Son, Div. of Scovill Mfg. Co., 470 Vanderbilt Ave., Bklyn.  
Sequist Mfg. Corp., Cary, Ill.  
Sprayon Products, Inc., 2075 E. 65th St., Cleveland, O.  
Standard Valve & Coupler Corp., 1114 N. E. Ulysses St., Minneapolis, Minn.  
Sterling Seal Co., Erie, Pa., (Protector Caps)  
Super Whip Co., 715 S. Damen Ave., Chicago 12  
VCA, Inc., 1720 Fairfield Ave., Bridgeport  
Viking Valve Co., 419 E. Woodbine Ave., Louisville 8, Ky.

## VANILLIN

Dodge & Olcott Inc., 180 Varick St., N. Y.  
Dow Chemical Co., Midland, Mich.  
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.  
Aromatic Products, Inc., 235 4th Ave., N. Y.  
Felton Chemical Co., 603 Johnson Ave., Brooklyn, New York  
Fine Chems. Div., Shulton, Inc., 630 5th Ave., N. Y.  
Florasynth Laboratories, 900 Van Nest Ave., N. Y.  
Fritzsch Bros., 76-9th Ave., N. Y. 11  
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.  
Magnus, Mabree & Reynard, 16 Desbrosses St., N. Y.  
Maywood Chemical Co., Maywood, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis, Mo.  
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.  
Schimmel & Co., 601 W. 26th St., N. Y. 1  
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18, N. Y.  
Ungerer & Co., 161 Ave. of Americas, N. Y. 13  
Verona Chemical Co., 26 Verona Ave., Newark, New Jersey

## VAPORIZERS (Insecticide, Deodorizing, Perfuming, etc.)

(see also *Sprayers and Atomizers*)

Allied Block Chemical Co., 428 Bingham St., Pittsburgh 3, Pa.  
American Aerovap, Inc., 170 W. 74th St., New York 23  
Associated Products Co., Bakerstown, Pa.  
Columbia Chemical Co., 154 E. Erie St., Chicago  
De-Bug-Er, Inc., 632 W. Washington Ave., Madison, Wis.  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
Insect-O-Lite Co., 2904 Woodburn Ave., Cincinnati, O.  
Keystone Scent Conditioner Corp., 315 N. 12th St., Philadelphia 7  
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.  
Universal Electric Prods., 2201 Regent St., Madison 5, Wis.  
Utica Sanitary Specialties, Inc., Oriskany Blvd., Whitesboro, N. Y.

## VARNISH GUMS (see Gums)

## VENDING MACHINES

Acme Cotton Products Co., 245-5th Ave., N. Y.  
(Sanitary Napkin)  
Acorn Paper Co., 2145 Baker St., San Francisco  
(Towel)  
Bennett Mfg. Co., Alden, N. Y. (Towel)  
Brown Co., Portland, Me. (Soap and Paper Towel)  
Dash Metal Prods. Co., 260 47th St., Brooklyn, N. Y.  
(Towels)  
Franklin Metal Prods. Co., 1500-02 Wabash Ave., Chicago  
Hospital Specialty Co., 1991 E. 66 St., Cleveland, O.  
(Sanitary Napkin)  
Mipro Metal Prods. Co., 951 Howard St., San Francisco  
Palmer Fixture Co., Waukesha, Wisc.

Rochester Germicide Co., 333 Hollenbeck St., Rochester N. Y. (Sanitary Napkins)  
Shore Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles  
(Towel)  
Towel Saver, Inc., 2816 E. 11th St., Los Angeles, Cal.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12 (Sanitary Napkin)

## VETIVER OIL (see Essential Oils)

## VOLCANIC ASH (see Abrasives and Fillers)

## WALL WASHING EQUIPMENT

Hild Floor Machine Co., 740 W. Washington St., Chicago  
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago  
Multi-Clean Prods., 2277 Ford Pkwy., St. Louis  
Ponsell Floor Machine Co., 220 W. 19 St., N. Y. 11  
Quaker Maintenance Co., 124 W. 18th St., N. Y. 11  
Rex-Cleanwall Corp., Brazil, Ind.

## WARFARIN

S. B. Penick & Co., 50 Church St., N. Y. 8  
Prentiss Drug & Chem. Co., 110 William St., N. Y.

## WARFARIN FORMULATIONS

A-M-R Chem. Co., 985 E. 35th St., Bklyn.  
Ampion Corp., 4-88 47th St., Long Island City, N. Y.  
California-Spray Chemical Corp., Richmond, Calif.  
Chase Products Co., 1816 St. Charles Rd., Maywood, Ill.  
Chemical Service of Baltimore, Howard & West Sts., Balto.  
Douglas Chem. Co., 620 E. 16 Ave., North Kansas City Mo.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y.  
Hysan Products Co., 932 W. 38th St., Chicago  
John Opitz, Inc., 50-14 39th St., Long Island City, N. Y.  
John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Prentiss Drug & Chem. Co., 110 William St., N. Y.  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.  
Science Industries, 1509 N. Broadway, St. Louis  
Sennwald Drug Co., 2721 Chouteau Ave., St. Louis  
Uncle Sam Chemical Co., 573 W. 131 St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago

## WASHFASTNESS TESTERS (see Laboratory Apparatus and Equipment)

## WASHING MACHINERY (drums and barrels)

Eureka Machine Co., 2061 Vega Ave., Cleveland  
Harnischfeger Corp., 4400 W. National Ave., Milwaukee  
Industrial Washing Machine Corp., Matawan, N. J.  
Vol-U-Meter Co., 707 Ohio St., Buffalo

## WASTE RECEPTACLES (Waste Baskets, Trash Receptacles, etc., Metal or Fibre)

Atlas Products Co., 3825 S. Racine Ave., Chicago  
Bennett Mfg. Co., Alden, N. Y.  
Continental Can Co., 100 E. 42 St., N. Y. 17  
Federal Fibre Corp., 3704 Tenth St., Long Island City 1, N. Y.  
Franklin Metal Products Co., 1500-02 Wabash Ave., Chicago  
Jones & Laughlin Steel Corp., 401 Liberty Ave., Pittsburgh  
F. H. Lawson Co., Evans & Whatley Sts., Cincinnati 4, O.  
Master Metal Products, Inc., 291 Chicago St., Buffalo 5, N. Y.  
Shore Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles 23  
United Metal Cabinet Corp., 14th & Laurel Sts., Pottsville, Pa.  
Witt Cornice Co., 2138 Winchell Ave., Cincinnati



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### WATER CONDITIONING EQUIPMENT

Belco Ind. Equipment Co., 51 Iowa Ave., Paterson, N. J.  
Permutit Co., 330 W. 42nd St., N. Y.

### WATER REPELLENTS (Silicone)

Dow-Corning Corp., Midland, Mich.  
General Electric Co., Waterford, N. Y.  
Linde Air Prods., 30 E. 42nd St., N. Y.  
Union Carbide & Carbon Corp., 30 E. 42 St., N. Y. 17

### WATER SOFTENERS

Amer. Agricultural Chem. Co., 50 Church St., N. Y.  
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div., General Aniline & Film Corp.,  
435 Hudson St., N. Y. 14  
Baum's Castorine Co., Rome, N. Y.  
Blockson Chemical Co., Joliet, Ill.  
Columbia-Southern Chem. Corp., 1 Gateway, Pittsburgh  
Dow Chem. Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp.,  
40 Rector St., N. Y. 6  
Glyco Prods. Co., 350 5th Ave., N. Y.  
A. R. Maas Chem. Co., Div., Victor Chem. Wks., South  
Gate, Calif.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis  
Olin Mathieson Chem. Corp., Baltimore 3  
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis  
Permutit Co., 330 W. 42nd St., N. Y.  
Refined Products Corp., Page & Newkirk Ave.,  
Lyndhurst, N. J.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Rumford Chemical Wks., 19 Newman St., Rumford, R. I.  
E. B. Snyder Labs., 2137 E. Harold St., Phila.  
Solvay Process Div., Allied Chem. & Dye Corp., 61  
Broadway, N. Y.  
Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison,  
Wisc.  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Westvaco Chem. Div., Food Machy. & Chem. Corp.,  
161 E. 42nd St., N. Y.  
Wyandotte Chemicals Corp., Michigan Alkali Div.,  
Wyandotte, Mich.

### WATER STILLS (Automatic)

International Filter Co., 325 W. 25th Pl., Chicago  
F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.

### WAX APPLICATORS (see Applicators for Floor Wax)

### WAXES (Carnauba, Candelilla, Montan, etc. Do not con- fuse with floor wax)

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y.  
Amer. Lignite Products Co., Ione, Calif.  
Archer-Daniels-Midland Co., Minneapolis 2  
M. Argueso & Co., 442 Waverly Ave., Mamaroneck,  
N. Y.  
Avon Trading Co., 401 Broadway, N. Y.  
Biddle Sawyer Corp., 20 Vesey St., N. Y. 7  
Candy & Co., 2515 W. 35th St., Chicago  
Cochrane Chem. Co., 151 Main St., Matawan, N. J.  
Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
T. G. Cooper & Co., Cedar & Venango Sts., Phila.  
Cornelius Wax Refining, Div. G. S. Ziegler & Co., 99  
Church St., N. Y. 7  
Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
Distributing & Trading Co., 444 Madison Ave., N. Y.  
Dura Commodities Corp., 20 Vesey St., N. Y. 7  
Everitt & Ray, 225 W. 23, Los Angeles 7  
Michael Hassel, 75 West St., N. Y. 6



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Telephone MAket 4-0410

EXECUTIVE OFFICES: CHRYSLER BLDG., NEW YORK 17, N. Y.

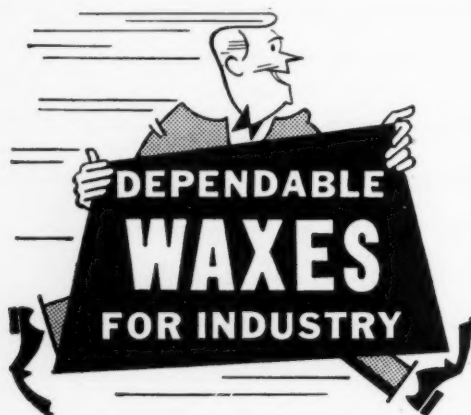
**WAXES, CARNAUBA, CANDELILLA, MONTAN, etc.**  
(Contd.)

Industrial Raw Materials Corp., 575 Madison Ave., N. Y. 22  
**O. G. Innes Corp.**, 82 Wall St., N. Y. 5  
**International Wax Ref. Co.**, Valley Stream, N. Y.  
**Koster Keunen**, Sayville, N. Y.  
**Lenape Trading Co.**, 233 Broadway, N. Y.  
**Geo. H. Lincks, Inc.**, 312 Bridge St., Brooklyn, N. Y.  
**Theodore Leonhard Wax Co.**, Haledon, N. J.  
**Mercantile Wax Div.**, Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
**Geo. A. Miel Co.**, Page Ave., Lyndhurst, N. J.  
**Muench-Kreuzer Candle Co.**, Syracuse, N. Y.  
**Orbis Products Corp.**, 601 W. 26th St., N. Y.  
**S. B. Penick & Co.**, 50 Church St., N. Y.  
**Pennotex Oil Corp.**, 29 Broadway, N. Y. 6  
**Prentiss Drug & Chem. Co.**, 110 William St., N. Y.  
**R. F. Revson Co.**, 144 W. 18th St., N. Y.  
**River Plate Corp.**, 573 Ferry St., Newark 5, N. J.  
**Robinson Wagner Co.**, 110 E. 42nd St., N. Y.  
**Robeco Chemicals, Inc.**, 23 E. 26th St., N. Y.  
**Frank B. Ross Co.**, 6-10 Ash Street, Jersey City, N. J.  
**William H. Scheel, Inc.**, 38 Franklin St., Bklyn.  
**Smith & Nichols, Inc.**, 620 Central Ave., Carlstadt, N. J.  
**Standard Oil Co.**, (Calif.), 225 Bush St., San Francisco  
**F. W. Steadman Co.**, 59 Pearl St., N. Y.  
**Strahl & Pitsch**, 141 Front St., N. Y.  
**Strohmeyer & Arpe**, 139 Franklin St., N. Y.  
**Hans Tobeason Div.**, Balfour Guthrie & Co., 67 Wall St., N. Y. 5  
**Arthur C. Trask Co.**, 4103 S. LaSalle St., Chicago  
**Warwick Wax Co.**, 10-10 44th Ave., L. I. C. 1, N. Y.  
**Wax Corp. of America**, 21-29 Dunham Pl., Bklyn.  
**Wax & Rosin Prods.**, 42 Broadway, N. Y. 4  
**Will & Baumer Candle Co.**, Syracuse, N. Y.

**WAXES, FLOOR AND POLISHING**

**Ampion Corp.**, 4-88 47 Ave., Long Island City, N. Y.  
**Analab Labs.**, 285 Franklin St., Boston 10  
**Antiseptol Co.**, 5524 Northwest Highway, Chicago

**Banner Chemical Products Co.**, 9 Calumet St., Newark 5, N. J.  
**Baird & McGuire, Inc.**, Holbrook, Mass.  
**Betco Corp.**, 830 Elysian Ave., Toledo 7  
**Buckingham Wax Corp.**, Van Dam St. & Borden Ave., L. I. City, N. Y.  
**Butcher Polish Co.**, 183 Commercial St., Malden, Mass.  
**Candy & Co.**, 2515 W. 35th St., Chicago  
**Cato Chemical Co.**, 116 S. York St., Elmhurst, Ill.  
**Chemical Service of Balto.**, Howard & West Sts., Balto.  
**Chicago Sanitary Prods. Co.**, 3100 Throop St., Chicago  
**Crystal Soap & Chemical Co.**, 6300 State Rd., Phila.  
**Davies-Young Soap Co.**, Dayton, O.  
**E. I. du Pont de Nemours & Co.**, Wilmington, Del.  
**Eagle Soap Corp.**, Huntington, Ind.  
**Empire Chemical Prods. Co.**, 10 Longworth St., Newark, N. J.  
**Essential Chems. Co.**, 5906 N. Port Washington Rd., Milwaukee  
**Federal Varnish Division**, S. Ashland Ave. at 29th St., Chicago  
**Finnell System, Inc.**, 500 East St., Elkhart, Ind.  
**Franklin Research Co.**, 5134 Lancaster Ave., Phila.  
**Fuld Bros.**, 702 S. Wolf St., Baltimore  
**James Good, Inc.**, 2107 Susquehanna Ave., Phila.  
**Golden Star Polish Mfg. Co.**, 2901 E. 13th St., Kansas City, Mo.  
**Haag Laboratories, Inc.**, 14000 S. Seeley Ave., Blue Island, Ill.  
**Harley Soap Co.**, Pierce & Orthodox Sts., Phila.  
**Higley Chemical Co.**, Dubuque, Iowa  
**R. M. Hollingshead Corp.**, Camden, N. J.  
**Hunt Mfg. Co.**, Lisbon Rd., Cleveland  
**Hysan Prods. Co.**, 932 W. 38th Place, Chicago  
**S. C. Johnson & Son**, 1525 Howe St., Racine, Wisc.  
**Klix Chem. Co.**, 551 Railroad Ave., South San Francisco, Calif.  
**Knoxall Corp.**, 1005 E. Sumner Ave., Indianapolis  
**Magee Chem. Co.**, 325 W. Main St., Bensenville, Ill.  
**National Chem. Laboratories**, 825 Lombard St., Phila.  
**Majestic Wax Co.**, 2139 Blake St., Denver, Colo.  
**Midland Labs.**, Dubuque, Iowa  
**M. & H. Laboratories**, 2703 Archer Ave., Chicago



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- **BEESWAX**
- **OZOKERITE**
- **SYNTHETIC WAXES**

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...All Other Applications

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Masury Young Co., 76 Roland St., Boston 29  
National Laboratories, Inc., 4934 Lewis Ave., Toledo, O.  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati  
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.  
Peck's Prods., 610 E. Clarence Ave., St. Louis  
Pennsylvania Refining Co., Butler, Pa.  
Perrow Chemical Co., Hurt, Va.  
Piatt & Smillie Chems., 2322 Olive, St. Louis 3  
Puritan Chem. Co., Atlanta, Ga.  
Reily Chem. Co., Industrial Prods. Div., P. O. Box 98,  
New Orleans, La.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Royce Chem. Co., Carlton Hill, N. J.  
Sander Chem. Co., 2205 N. American St., Phila. 33  
Schaeffer Mfg. Co., 102 Barton St., St. Louis  
I. Schneid, Inc., 916 Ashby St., Atlanta, Ga.  
Science Industries, 1509 N. Broadway, St. Louis  
Simoniz Co. 2100 Indiana Ave., Chicago 16  
H. V. Smith & Co., 1910 Univ. Ave., St. Paul, Minn.  
E. B. Snyder Labs., 2137 E. Harold St., Phila.  
Standard Soap Co., Div. Concord Chem. Co., 205 S. 2 St.,  
Camden, N. J.  
H. F. Staples Co., Medford, Mass.  
M. D. Stetson Co., 64 E. Brookline St., Boston  
Tesco Chemicals, Inc., Atlanta 5, Ga.  
Trio Chem. Wks., 341 Scholes St., Bklyn.  
Twi-Laq Chemical Co., 25 N. Portland Ave., Brooklyn  
Twin City Shellac Co., 340 Flushing Ave., Brooklyn  
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.  
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.  
U. S. Sanitary Specialties Corp., 1001 S. California Ave.,  
Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25  
Vestal, Inc., 4963 Manchester St., St. Louis 10  
T. F. Washburn Co., 2244 Elston Ave., Chicago  
Wilco Co., 4425 Bandinni Blvd., Los Angeles  
Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.  
G. H. Wood & Co., P. O. Box 34, Toronto, Ont., Canada  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte,  
Mich.

### WAXES, FLOOR (Germicidal)

Buckingham Wax Co., 51-03 Van Dam St., Long Island  
City, N. Y.  
Trio Chemical Works, Inc., 341 Scholes St., Brooklyn

### WAXES, FLOOR (Insecticidal)

Buckingham Wax Co., 51-03 Van Dam St., Long Island  
City, N. Y.  
Chemical Service Co. of Baltimore, Howard & West Sts.,  
Baltimore  
Franklin Research Co., 5124 Lancaster Ave., Phila.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Hysan Prods. Co., 932 W. 38th Pl., Chicago  
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.  
Rex-Cleanwall Corp., 238 S. Murphy Ave., Brazil, Ind.  
Windsor Wax Co., 611 Newark St., Hoboken, N. J.

### WAXES, Microcrystalline (Emulsifiable) (see Microcrystalline Waxes)

### WAXES, (Compounded)

Allied Asphalt & Mineral Corp., 217 Broadway, N. Y.  
Ameco Solvents & Chems. Co., 4619 Reading Rd., Cin-  
cinnati  
M. Argueso & Co., 442 Waverly Ave., Mamaroneck,  
N. Y.  
Atlantic Refining Co., 260 S. Broad St., Phila.  
Atlas Powder Co., Wilmington, Del.  
Avon Trading Co., 401 Bdway., N. Y.  
Bakelite Corp., 30 E. 42nd St., N. Y.  
Bareco Wax Co., Div. Petrolite Corp., Box 2009, Tulsa,  
Okla.  
Buffalo Solvents & Chem. Corp., N. O. #73, Sta. B,  
Buffalo



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NAME OF WAX	MELTING POINT ASTM D-127-30	PENETRATION 100G/77°/5 SEC.	COLOR N P A	ACID NUMBER	SAPONIFICATION VALUE	TYPE
CARDIS ONE (U.S. PAT. NO. 2471102)	195-200	1-2	4-5	12-16	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS * 314	184-189	4-6	4-5	13-16	45-55	EMULSIFIABLE PETROLEUM WAX
CARDIS * 319	180-185	5-7	4-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS * 320	180-185	5-7	4-5	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS * 262	195-200	3-5	BROWN	14-17	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX *	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON * B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
POLYMEKON **	200-MIN.	0-3	YELLOW	0.0	0.0	SPECIALLY PROCESSED PETROLEUM WAX
WARCO * WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO * WAX 170-A	170-175	10-15	YELLOW 1-2	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCO * WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCOSINE *	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	136-138 ASTM		FULLY REFINED			CRYSTALLINE
CANE WAX 700	169-174	1.0-1.5	BROWN	25-30	70-90	VEGETABLE WAX
CANE WAX 500	171-176	3 MAX.	LIGHT BROWN	25-35	55-70	VEGETABLE WAX
CANE WAX 517-711	170-175	2 MAX.	BLACK	—	—	VEGETABLE WAX

\* ®

\*\*Patent Applied For.

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If you have, one of Concord's diversified line of waxes may help to solve it. . . . We are manufacturing special waxes for some of the nation's largest companies. We would welcome the opportunity to help you. . . .

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WATER-SOLUBLE WAX**

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## WAXES, COMPOUNDED (Contd.)

Carlisle Chemical Works, Reading, O.  
 Cato Chemical Co., Elmhurst, Ill.  
 Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago  
 Cochran Chemical Co., 151 Main St., Matawan, N. J.  
 Commerce Oil Corp., Warren, Pa.  
 Concord Chem. Co., 205 S. 2 St., Camden, N. J.  
 Cornelius Wax Refining, Div. G. S. Ziegler & Co., 99 Church St., N. Y. 7  
 Wm. Diehl & Co., 330 W. 42nd St., N. Y. 18  
 Dixie Solvents & Chems. Co., Dixie Highway at Appleton Lane, Louisville, Ky.  
 Glyco Products Co., 350 5th Ave., N. Y.  
 Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis  
 Industrial Raw Materials Co., 575 Madison Ave., N. Y. 22  
 International Wax Ref. Co., Valley Stream, N. Y.  
 Mercantile Wax Div., Mercantile Metal & Ore Corp., 595 Madison Ave., N. Y.  
 Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis, Mo.  
 Koster-Keunen, Sayville, N. Y.  
 Norco Prods. Co., E. Ontario & Bath Sts., Phila. 34  
 Ohio Solvents & Chems. Co., 3470 W. 140 St., Cleveland  
 Petroleum Specialties, Inc., 205 E. 42 St., N. Y. 17  
 Pennotex Oil Corp., 29 Broadway, N. Y.  
 River Plate Corp., 573 Ferry St., Newark 5, N. J.  
 Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.  
 Wm. H. Scheel, Inc., 38 Franklin St., Bklyn. 22  
 Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
 Shanco Plastics & Chemicals, Tonawanda, N. Y.  
 Shell Oil Co., 50 W. 50 St., N. Y. 20  
 Sherwood Refining Co., Englewood, N. J.  
 Smith Nichols, Inc., 121 Maiden Lane, N. Y. 38  
 L. Sonneborn Sons, 300 4th Ave., N. Y.  
 F. W. Steadman Co., 59 Pearl St., N. Y.  
 Strahl & Pitsch, 141 Front St., N. Y.  
 Swift & Co., Industrial Oil Dept., Hammond, Ind.  
 Hans Tobearson Div., Balfour, Guthrie & Co., 67 Wall St., N. Y. 5  
 Texas Solvents & Chem. Co., 8501 Market, Houston  
 Van Dyk & Co., Belleville, N. J.  
 Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.  
 Wax Corp. of America, 21-29 Dunham Pl., Bklyn.  
 Wisconsin Solvents & Chems. Corp., 1719 S. 83 St., Milwaukee  
 Wolverine Solvents & Chems. Co., 1500 Century Ave., SW, Grand Rapids, Mich.

## WAXES, Polyethylene

Eastman Chemical Products, Inc., Kingsport, Tenn.  
 Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

## WAXES, Petroleum (emulsifiable)

Atlantic Refining Co., 260 S. Broad St., Phila.  
 Bareco Wax Co., Div. Petrolite Corp., Box 2009, Tulsa, Okla.  
 Industrial Raw Materials Co., 575 Madison Ave., N. Y.  
 International Wax Refining Corp., Valley Stream, N. Y.  
 Pennotex Oil Corp., 29 Broadway, N. Y.  
 Shell Oil Co., 50 W. 50 St., N. Y. 20  
 Warwick Wax Co., 10-10 44th Ave., Long Island City, N. Y.

## WAXES, SYNTHETIC

Baker Castor Oil Co., 120 Broadway, N. Y. 5  
 Bareco Wax Co., Div. Petrolite Corp., Box 2009, Tulsa, Okla.  
 Carbide & Carbon Chems. Co., 30 E. 42 St., N. Y.  
 Carlisle Chem. Wks., Reading, O.  
 Cornelius Wax Refining, Div. G. S. Ziegler & Co., 99 Church St., N. Y. 7  
 Dura Commodities Corp., 20 Vesey St., N. Y.  
 Eastman Chem. Prods., Inc., Kingsport, Tenn.  
 Emulsol Chem. Corp., 59 E. Madison St., Chicago  
 Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
 Glyco Prods. Co., 350 5th Ave., N. Y.  
 International Wax Refining Co., Valley Stream, N. Y.  
 Monsanto Chem. Co., St. Louis 4

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### SIPEX

Fatty Alcohol Sulfates

—Trade name of American Alcolac's technical grade of fatty alcohol sulfates.

PRODUCT	TRADE NAME	APPLICATION
<b>LAURYL ALCOHOL SULFATES:</b> <b>Ammonium Lauryl Sulfate</b> <b>Diethanolamine Lauryl Sulfate</b> <b>Magnesium Lauryl Sulfate</b> <b>Potassium Lauryl Sulfate</b> <b>Sodium Lauryl Sulfates:</b> 96.0% Active Powder 30.0% Paste (high salt) 30.0% Paste (low salt) <b>Triethanolamine Lauryl Sulfate</b>  <b>OTHER FATTY ALCOHOL SULFATES:</b> <b>Sodium Cetyl Sulfate</b> <b>Sodium Cetyl-Oleyl Sulfate</b> <b>Sodium Oleyl Sulfate</b> <b>Sodium Octyl Sulfate</b> <b>Sodium Tallow Sulfate</b>	<b>SIPEX A</b> <b>SIPEX DEA</b> <b>SIPEX M</b> <b>SIPEX K</b>  <b>SIPEX SD</b> <b>SIPEX S</b> <b>SIPEX S/B</b> <b>SIPEX TEA</b>  <b>SIPEX CS</b> <b>SIPEX COS</b> <b>SIPEX OS</b> <b>SIPEX OLS</b> <b>SIPEX TS</b>	<i>Acid Cleansers with High Foam</i> <i>Liquid Clear Detergent with High Foam</i> <i>Liquid Clear Detergent</i> <i>Bar Detergents</i>  <i>Suitable for a wide variety of high foam liquid or powdered detergent applications</i> <i>Low cloud point Liquid Detergent</i>  <i>Suitable for heavy duty laundry and other low foam high detergency applications</i>

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### SIPONOL

Fatty Alcohols

—Trade name of American Alcolac's fatty alcohols.

PRODUCT	TRADE NAME	APPLICATION
<b>Cetyl Alcohol</b>  <b>Lauryl Alcohol:</b> 70% Lauryl, 25% Myristyl 62% Lauryl, 23% Myristyl  <b>Tallow Alcohol</b>	<b>SIPONOL CX</b>  <b>SIPONOL L2X</b> <b>SIPONOL L5X</b>  <b>SIPONOL TX</b>	<i>Foam Depressant and Chemical Intermediate</i>  <i>For Sulfation and as a Chemical Intermediate</i>  <i>Foam Depressant and Chemical Intermediate</i>

#### MAY WE HELP?

Technical bulletins giving detailed information on all of the above products are available upon request. In addition, our technical staff will furnish you with working samples, tested formulas, and constructive assistance in the development of your product. There is no obligation for these services.

## AMERICAN ALCOLAC CORPORATION

MAIN OFFICE and PLANT:

3440 Fairfield Road, Baltimore 26, Md.

Sales  
Offices

350 Fifth Avenue, New York 1, New York  
 6 North Michigan Avenue, Chicago 2, Illinois  
 Room 3, 1487 Mountain St., Montreal, Que., Canada



## WAXES, SYNTHETIC (Contd.)

Nopco Chem. Co., 1st & Essex Sts., Harrison, N. J.  
Pennotex Oil Corp., 29 Broadway, N. Y.  
William H. Scheel, Inc., 38 Franklin St., Bklyn.  
Semet Solvay Petrochemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Wax Corp. of America, 21-29 Dunham Pl., Bklyn.

## WEED KILLERS (2, 4-D, Chloro IPC, etc.)

Atlantic Refining Co., 260 S. Broad St., Phila.  
Baird & McGuire, Inc., Holbrook, Mass.  
California Spray-Chemical Corp., Richmond, Calif.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y. 17  
Chem. Service of Balto., Howard & West Sts., Balto.  
Chipman Chem. Co., Bound Brook, N. J.  
Columbia-Southern Chem. Corp., Gateway, Pittsburgh  
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia  
Diamond Alkali Co., Union Commerce Bldg., Cleveland  
Douglas Chem. Co., 620 E. 16th Ave., North Kansas City, Mo.  
Dow Chemical Co., Midland, Mich.  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Eagle Soap Corp., Huntington, Ind.  
Fairfield Chem. Div., 1701 Patapsco Ave., Baltimore, Md.  
Fuld Bros., 702 S. Wolfe St., Baltimore  
Geigy Agric. Chems., 89 Barclay St., N. Y. 8  
General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
James Good Co., 2107 Susquehanna Ave., Phila.  
B. F. Goodrich Chemical Co., Cleveland 15  
Hysan Prods. Co., 932 W. 38 Pl., Chicago 9  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis  
Michigan Chemical Corp., St. Louis, Mich.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
Oldbury Electro-Chemical Co., Niagara Falls, N. Y.  
Pacific Coast Borax Co., 100 Park Ave., N. Y. 17  
Penn Salt Mfg. Co., 3 Penn Center Plaza, Phila.  
Pittsburgh Coke & Chem. Co., 2000 Grant Bldg., Pittsburgh

John Powell & Co., Div. Olin Mathieson Chem. Corp., Baltimore  
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.  
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.  
Rohm & Haas Co., Washington Sq., Phila. 5  
Shell Chem. Corp., 50 W. 50th St., N. Y. 20  
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City 8, Mo.  
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12  
James Varley & Sons, 1200 Switzer Ave., St. Louis  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## WEIGHING EQUIPMENT (Automatic)

Arencos Mach. Co., 25 W. 43 St., N. Y. 18  
Battle Creek Packaging Machs., Battle Creek, Mich.  
Consolidated Packaging Mch. Corp., 1400 West Ave., Buffalo, N. Y.  
Exact Weight Scale Co., 944 5th Ave., Columbus 8, O.  
J. L. Ferguson Co., Joliet, Ill.  
B. F. Gump Co., 1338 S. Cicero Ave., Chicago  
S. Howes Co., Silver Creek, N. Y.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (Used)  
Pneumatic Scale Corp., North Quincy, Mass.  
Rapids Machy. Co., Marion, Iowa  
Read Standard Corp., York, Pa.  
F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Machinery Co., 6643 W. Diversey Blvd., Chicago  
Vol-U-Meter Co., 710 Ohio St., Buffalo, N. Y.  
Weigh Right Automatic Scale Co., 404 Grant Ave., Joliet, Ill.

## WETTING AGENTS (see also Detergents, Synthetic, and Sulfonated Oils)

Aceto Chemical Co., 40-40 Lawrence Ave., Flushing, N.Y.  
American Alcolac Corp., 3440 Fairfield Rd., Balto.

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Antara Chemicals, Div., General Aniline & Film Corp., 435 Hudson St., N. Y. 14  
Armour Chemical Div., 1355 W. 31st St., Chicago  
Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Atlas Powder Co., Wilmington, Del.  
Blockson Chemical Co., Joliet, Ill.  
Carbide & Carbon Chems. Co., 30 E. 42nd St., N. Y.  
Continental Oil Co., 636 5th Ave., N. Y. 20  
Commercial Solvents Corp., 260 Madison Ave., N. Y.  
Debydag Deutsche Hydrierwerke, Henkel Strasse 67, Dusseldorf, Germany  
E. F. Drew & Co., 15 E. 26th St., N. Y. 10  
E. I. du Pont de Nemours & Co., Wilmington, Del.  
Emery Industries, 4300 Carew Tower, Cincinnati  
Emulsol Chemical Corp., 59 E. Madison St., Chicago  
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.  
Geigy Industrial Chemicals, 89 Barclay St., N. Y. 8  
Glyco Prods. Co., 350 5th Ave., N. Y.  
Harchem Div., Wallace & Tiernan, Inc., Box 178, Newark, N. J.  
Hercules Powder Co., 961 Market St., Wilmington, Del.  
Jefferson Chem. Co., 260 Madison Ave., N. Y. 16  
Marchon Prods. Ltd., Whitehaven, Cumberland, England  
Maywood Chem. Wks., Maywood, N. J.  
M. Michel & Co., 90 Broad St., N. Y.  
Miranol Chem. Co., 277 Coit St., Irvington, N. J.  
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
National Aniline Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
Ninol Laboratories, 1719 S. Clinton St., Chicago 16  
Nopco Chem. Co., 1st & Essex St., Harrison, N. J.  
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2  
Oronite Chem. Co., 200 Bush St., San Francisco  
Pilot Chem. Co., 215 W. 7 St., Los Angeles 14  
Raymond Laboratories, Inc., 261 E. 5th St., St. Paul, Minn.  
Refined Prods. Corp., Lyndhurst, N. J.  
Robinson Wagner Co., 110 E. 42nd St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Sharples Chemicals Div., 3 Penn Center Plaza, Phila.  
L. Sonneborn Sons, 300 4th Ave., N. Y.  
Stanco Distributors, Inc., 216 W. 14th St., N. Y.  
Stepan Chem. Co., 20 N. Wacker Drive, Chicago  
Synthetic Chemicals, Inc., 335 Boulevard, Paterson 4, N. J.  
Tennessee Corp., 619 Grant Blvd., Atlanta, Ga.  
Treprow Prods., Inc., 59 Camden St., Paterson, N. J.  
Ultra Chemical Works, 2 Wood St., Paterson, N. J.  
Universal Detergents, Inc., 1825 E. Spring St., Long Beach, Calif.  
Van Dyk & Co., Belleville, N. J.  
Victor Chem. Works, 155 N. Wacker Dr., Chicago  
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

## WHALE OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., 2191 W. 110 St., Cleve. 2  
F. A. Marsily & Co., 15 Whitehall St., N. Y.  
Murray Oil Prods. Co., 21 West St., N. Y.  
J. H. Redding Co., 17 Battery Pl., N. Y.  
Robeco Chemicals, Inc., 25 E. 26 St., N. Y.  
Swift & Co., Industrial Oil Dept., Hammond, Ind.  
Welch, Holme & Clark Co., 439 West St., N. Y.  
Wilbur-Ellis Co., 17 Battery Pl., N. Y.

## WHALE OIL SOAPS (see Fish Oil Soaps)

## WHITE ARSENIC (see Arsenic)

## WHITE MINERAL OILS

Atlantic Refining Co., 260 S. Broad St., Philadelphia  
Esso Standard Oil Co., 15 W. 51 St., N. Y. 19  
Pennsylvania Refining Co., Butler, Pa.  
Petroleum Specialties, Inc., 205 E. 42nd St., N. Y. 17  
Sherwood Refining Co., Englewood, N. J.  
L. Sonneborn Sons, 300 4th Ave., N. Y. 10  
Standard Oil Co. (Calif.), 225 Bush St., San Francisco  
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago  
F. W. Steadman Co., 59 Pearl St., N. Y.  
Welch, Holme & Clark Co., 439 West St., N. Y.

## WHITENING AGENTS (see Optical Bleaches)

## WINDSHIELD CLEANERS, (see Glass and Windshield Cleaners)

## WIPING CLOTHS

American Cotton Prods. Co., 2516 S. Damen Ave., Chicago 8  
Burcott Mills, 302 N. Loomis St., Chicago  
Charles Belsky & Sons, 5350 Main St., Holyoke, Mass.  
Chicago Sanitary Rag Co., 2139 S. Loomis St., Chicago  
Leshner Corp., Hamilton, O.  
National Waste Co., 366 Madison Ave., N. Y.  
Rittenbaum Bros., 691 Houston St., N. E. Atlanta, Ga.  
Sanitex Corp Corp., 2321 N. Wolcott, Chicago  
Zelinkoff Co., 345-47 N. Main St., Wichita, Kan.

## WOOD FLOUR

Becker Moore & Co., N. Tonawanda, N. Y.  
Frank Miller & Sons, 2250 W. 58th St., Chicago  
Natl. Sawdust Co., 69 N. 6th St., Bklyn.  
Tennessee Prods. & Chem. Corp., American National Bank Bldg., Nashville, Tenn.  
G. A. Wharry & Co., 125 Broad St., N. Y. 4  
Wilner Wood Products Co., Norway, Me.  
Witco Chemical Co., 122 E. 42 St., N. Y.  
Wood Flour, Inc., Winchester, N. H.

## WOOD PRESERVATIVES

Baird & McGuire, Inc., Holbrook, Mass.  
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.  
California Spray-Chemical Corp., Richmond, Calif.  
Cliffs-Dow Chemical Co., Midland, Mich.  
Cuprinol Div.,—Darworth, Inc., Simsbury, Conn.  
E. I. du Pont de Nemours & Co., Wilmington  
Hercules Powder Co., 961 Market St., Wilmington, Dela.  
Koppers Co., Chamber of Commerce Bldg., Pittsburgh  
Monsanto Chemical Co., St. Louis  
Neville Chemical Co., Neville Island, Pittsburgh  
Olin Mathieson Chem. Corp., Baltimore  
Oronite Chemical Co., 200 Bush St., San Francisco  
Reilly Tar & Chem. Corp., Indianapolis 5, Ind.  
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17  
Velsicol Corp. 330 E. Grand Ave., Chicago

## WRAPPING MACHINERY

Battle Creek Packing Machines, Inc., Battle Creek, Mich.  
J. L. Ferguson Co., Joliet, Ill.  
Hudson-Sharp Machine Co., Green Bay, Wisc.  
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.  
Loeb Equipment Supply Co., 810 W. Superior St., Chicago (Used)  
Miller Wrapping & Sealing Mach. Co., 16 S. Clinton St., Chicago  
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)  
Package Machinery Co., East Longmeadow, Mass.  
Pneumatic Scale Corp., North Quincy, Mass.  
F. B. Redington Co., 3000 St. Charles Rd., Bellwood, Ill.  
Stokes & Smith Co., 4915 Summerdale Ave., Phila.  
Triangle Package Mach. Co., 6643 W. Diversey Ave., Chicago 35  
Van Buren Wrapping Machy. Corp., 750 Grand St., Bklyn. 11

## ZINC NAPHTHENATE (see listings under Copper Naphthenate)

## ZINC OXIDE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.  
Anaconda Sales Co., E. Chicago, Ind.  
J. T. Baker Chem. Co., Phillipsburg, N. J.  
Chas. B. Chrystal Co., 53 Park Pl., N. Y.  
Eagle-Picher Co., American Bldg., Cincinnati 1  
Harshaw Chem. Co., 1945 E. 97th St., Cleveland 6  
Mallinckrodt Chemical Works, St. Louis, Mo.  
Merck & Co., Rahway, N. J.  
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis  
New Jersey Zinc Co., 160 Front St., N. Y.  
Rohm & Haas Co., 222 W. Washington Sq., Phila.  
Robeco Chems., Inc., 23 E. 26th St., N. Y.  
Western Zinc Oxide Co., Leadville, Col.  
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

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**Alcohol D.C.A.**

**Aldehyde Myrac**—Lasting, lemon-floral with a sweet background.

**Aldehyde Myrmac**—An Orange Aldehyde type, strong and persistent.

**Ambrain**—The concentrated heart of Labdanum, without waxes or gum.

**Amyl Cinnamic Aldehyde** (Flomine Coeur)

**Anisylidene Acetone**

**Arras Aldehyde**—Lively, tart, orange-neroli odor, strong and lasting in soap.

**Benzoin Coeur**

**Benzyl Cinnamate**

**Benzyl Salicylate**

**Bicyclohexanone P**—Floral, woody, sweet Wood-Violet note.

**Cedarwood Oil White**

**Cedrenol**—Sweet, woody, rich—very lasting and stable in soap.

**Cedrenyl Acetate**—Lively, balsamic, sweet and lasting.

**Cedrol**

**Cedrone**

**Citral**

**Citral Dimethyl Acetal**

**Citronellol Coeur**

**Citronellyl Acetate**

**Citronellyl Formate**

**Citronellyl Methyl Acetal**

**Citronellyl Propionate**

**Cycloisoeugenol**

**Dimethyl Benzyl Carbinol**—Flowery, valuable in floral bouquets, especially lilac.

**Dimethyl Benzyl Carbonyl Acetate**—Rich, Roseotto note, very floral, powerful and sweet in soap.

**Dimethyl Octanol**

**Dimethyl Octanyl Acetate**

**Dimethyl Phenyl Ethyl Carbinol**

**Elvinol**—Suggests Linalool and Dimethyl Benzyl Carbinol. Sweet floral odor.

**Elvinyl Acetate**—Bergamot-like. More powerful and lasting. Sweet and refreshing.

**Ethyl Citronellol**

**Eugenyl Methyl Acetal**

**Eugenyl Phenyl Acetate**

**Fructone**—Remarkably powerful fruit character for soap.

**Galbanum Coeur**

**Gelsone**—Refreshing and long lasting Jasmine note.

**Geralex**

**Geraniol Absolute**

**Geraniol C.D.**

**Geraniol Coeur**

**Geranoxide**—Rosy, good in soap.

**Geranoxyl Acetaldehyde**

**Geranyl Acetate Coeur**

**Geranyl Butyrate**

**Geranyl Propionate**

**Girella**—Inexpensive fresh spicy character suitable for use directly in soap products.

**Hyacinth Body**—Very powerful nasturtium-hyacinth note.

**Hyacinth Body #3**

**Hydratropic Acetate**

**Hydratropic Alcohol**—Very flowery and lasting in soap.

**Hydratropic Aldehyde**

**Hydratropic Aldehyde Dimethyl Acetal**

**Hydroxycitronellal**

**Ionone Extra C-1**

**Ionone Alpha Methyl**

**Ionone Gamma Methyl #218**

**Ionone Methyl C-60**

**Ionone Methyl Gamma C-60**

**Irene Methyl Gamma**

**Isobutyl Furfyl Propionate**

**Iso Eugenol**

**Iso Jasmone**—Very powerful Jasmine body—very lasting in soap.

**Jessemal**—Rich Jasmine note, excellent in soap.

**Labdanum Resin Absolute**

**Lavender Ketone**—Yields a high lavendacious note. Particularly suited for use in white soaps.

**Lilanthol**—Powerful, flowery, muguet. Very stable.

**Linalool B Extra**

**Linalool Coeur**

**Linalyl Acetate 90-92%**

**Methyl Cinnamate**

**Methyl Diphenyl Ether—A** Rosy, leafy odor. Lasts well in soap.

**Myrrh Coeur** (Resin Absolute)

**Nerol**

**Oak Moss Absolute**

**Olibanum Coeur**

(Resin Absolute)

**Opoponax Resin Absolute**

**Para Cresyl Phenyl Acetate**

**Patchone**—Woody, Patchouli note, exceptionally suited for soap work.

**Petitgrain Absolute**

**Phenyl Acetaldehyde** Dimethyl Acetal

**Phenyl Ethyl Acetate**

**Phenyl Ethyl Alcohol**

**Phenyl Ethyl Benzoate**

**Phenyl Ethyl Cinnamate**

**Phenyl Ethyl Propionate**

**Phenyl Propyl Propionate**

**Pseudo Linalyl Acetate**—

Refreshing Bergamot and Lavender-like note; plus a slight Nutmeg suggestion. Our tests with Pseudo Linalyl Acetate in soap have shown that it is much more stable, more powerful and more flowery than Linalyl Acetate.

**Pseudo Linalyl Acetate**

**Technical**—Same as the above product with a wider cut of fractions.

**Styrax Clarified Extra**

**Syringial**—Green, leafy-note with a "melon" suggestion.

**Talia**—A new chemical possessing a green, leafy, powerful, violet-like character.

**Trans Decahydro**

**Betanaphthol**—Useful in Rose and Jasmine floral type odors. It has the faculty of diffusing other odors.

**Vertenex**—Sweet, rich and woody. It blends very well with any Ionone and enriches the odor quality.

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For those soap makers who prefer to use finished perfume oils, we offer the art and experience of our staff of skilled perfumers. Soap perfumery is a highly specialized field, requiring a complete technical knowledge of the intricacies of soap making and its chemistry, plus, of course, the creative flair of the true perfume artist. The van Ameringen-Haebler perfume chemists are ably qualified in these respects, and, in addition, are wise in the ways of marketing . . . thus they can help you in the selection of the right type of perfume for your particular product.

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# Reference Section

	<i>Page</i>
U. S. GOVERNMENT SPECIFICATIONS .....	231
THE PEET-GRADY METHOD .....	243
AEROSOL INSECTICIDES STORAGE TEST .....	245
AEROSOL TEST METHOD FOR FLYING INSECTS .....	247
COCKROACH SPRAY TEST METHOD .....	249
COCKROACH AEROSOL TEST METHOD .....	251
"SOAP AND CHEMICAL SPECIALTIES" INDEX .....	253
TRADE ASSOCIATION OFFICIALS .....	257
MAP OF U. S. WATER HARDNESS AREAS .....	256
INDEX TO ADVERTISERS .....	268

PIPERONYL BUTOXIDE REQUIREMENTS (O-I 508)		Max.	Min.
alpha [2-(2-butoxyethoxy) ethoxy]- 4, 5-methylenedioxy-2-propyltoluene, percent	80	1.05	1.07
Specific gravity at 25° C. <sup>1</sup>	1.497	1.512	
Refractive index at 20° C. <sup>2</sup>			

<sup>1</sup> Determined by any suitable method accurate to 0.001.

<sup>2</sup> Determined by an Abbe Refractometer or equivalent instrument at 20° C.

ALLETHRIN REQUIREMENTS (O-I 508)		Requirement (percent by weight)
Allethrin, minimum	75.0	
Chrysanthemic acid, maximum	2.7	
Chrysanthemic acid chloride, maximum	0.3	
Chrysanthemic anhydride, maximum	5.0	
Dichlorodifluoromethane insoluble, maximum	0.5	

ritation to human skin. The product shall conform to the following requirements.

Color ..... Not more than 4.0  
Union Color-  
imeter

Specific gravity API.9-22

Water content .....None

Flash point (open  
cup), minimum.....150° F.

Initial boiling point,  
minimum .....300° F.

Final boiling point.....650° F.

Solvent power for  
DDT at 74° F.....35 gm./100 ml.

The deodorized kerosene shall meet the following requirements:

Appearance .....Clear and free from  
suspended matter.

Color ..... Not less than plus 20  
(Saybold chromo-  
meter).

Distillation Initial boiling point  
range ..... not less than 350°  
F., end point not  
above 500° F.

Residue from  
distillation .....Neutral.

Flash point .....Not less than 125° F.  
(Closed cup).

Odor .....Free from kerosene  
odor and practically  
free from all odor.

Residue odor .....None.

Unulfonated  
residue .....96 percent, minimum.

The dichlorodifluoromethane shall conform to the detailed requirements specified in federal specification.

The trichloromonofluoromethane shall conform to the detailed requirements specified in federal specification.

The technical allethrin shall meet the following requirements:

Each container shall contain not less than 12 ounces of the insecticide, propellant and solvent mixture.

Each container when filled with the insecticide, propellant and solvent mixture shall contain not more than 80 ppm. of water.

The finished insecticide, propellant and solvent mixture in type I shall contain not less than 0.6 percent allethrin based on the analysis of the technical allethrin.

The finished insecticide, propellant and solvent mixture shall in type II contain not less than 0.40 percent by weight of pyrethrins.

The finished insecticide, propellant and solvent mixture shall, in type I and

#### COMPOSITION: P-S-624b

	Type I		Type II	
	Minimum	Maximum	Minimum	Maximum
Moisture (toluene distillation method) .....percent	....	....	....	40
Anhydrous soap (calculated as potash soap) .....percent	15	....	60	....
Free alkali (calculated as potassium hydroxide, KOH) .....percent	....	0.05	....	0.2
Free acid (calculated as oleic acid) .....percent	....	0.1	....	0.2
Alkaline salts (calculated as potassium carbonate, K <sub>2</sub> CO <sub>3</sub> ) .....percent	....	0.2	....	0.3
Matter insoluble in distilled water .....percent	....	0.1	....	0.2
Matter insoluble in alcohol .....percent	....	0.5	....	1.0
Chloride (calculated as potassium chloride, KCl) .....percent	....	0.3	....	0.5
Sodium compounds (calculated as sodium oxide, Na <sub>2</sub> O) .....percent	....	0.5	....	1.0
Sulfates .....percent	....	Trace	....	Trace
Rosin .....percent	....	None	....	None
Sugar .....percent	....	None	....	None
Iodine number (WIJS) of mixed fatty acids derived from the soap .....percent	7	80	7	80
Titer of mixed fatty acids derived from the soap, °C. ....	15	28	15	28
Acid number of mixed fatty acids derived from the soap .....percent	215	270	215	270

type II, contain not less than 2.0 percent by weight of dichlorodiphenyltrichloroethane (DDT).

The insecticide shall be mixed by a suitable process to produce a homogenous mixture. Dispenser filling shall be carried out at a relative humidity equivalent of not more than 30 percent at 70° F.

#### Soap, Toilet, Liquid and Paste P-S-624b

This specification covers liquid toilet soap and paste (for making liquid toilet soap) for use in dispensers.

Toilet soap shall be of one grade and of the following types: Type I.—Liquid; Type II.—Paste.

The material shall be a clear solution of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable -oil fatty acids with potash.

The material shall be a firm gel or paste of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable-oil fatty acids with potash.

The composition of the soap shall conform to the requirements shown in the table. Percentages are by weight.

Type II, paste soap.—The percentage of moisture and of anhydrous soap shall be computed and reported on the basis of the sample as received. The percentages of all other constituents shall be computed and reported on the basis of an assumed moisture content of 40 percent.

The soap shall be mildly perfumed and the odor shall not be objectionable as received, or in hot water. The soap shall not leave any objectionable odor on the skin after washing with a water solution of the soap and rinsing thoroughly with water.

A 15-percent (anhydrous soap content) solution of the material in distilled water, after having been frozen and then warmed to room temperature, shall exhibit no evidence of cloudiness or gelatinization.

The material when tested as specified shall produce a net volume of at least 100 ml.



# INGREDIENT MATERIALS (O-I-551a)

	Per Cent by Weight	
	Minimum	Maximum
Type I:		
Pyrethrins .....	0.08	0.12
Piperonyl butoxide, technical .....	0.75	0.85
DDT .....	0.95	1.05
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	
Type II:		
Allethrin .....	0.15	0.18
Piperonyl butoxide, technical .....	0.75	0.85
DDT .....	0.95	1.05
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	
Type III:		
Pyrethrins .....	0.08	0.12
Piperonyl butoxide, technical .....	0.75	0.85
Odor neutralizer .....	0.04	0.06
Deodorized kerosene .....	To make 100 per cent	

## DEODORIZED KEROSENE REQUIREMENTS (O-I-551a)

Distillation range:	
Initial boiling point, minimum, °F .....	350
End point, maximum, °F .....	500
Flash point, minimum, °F .....	125
Color .....	Not more than extremely slight discoloration 25 Saybolt minimum
Residual odor .....	None
Unulfonated residue, per cent, minimum .....	96

## Insecticides, Liquid, Space Spray O-I-551a

The insecticides covered by this specification are designed to spray in enclosed spaces either directly on flies and mosquitoes or into air in which they are flying.

The insecticides shall be of but one grade, and the following types (in deodorized kerosene), as specified:

Type I.—Pyrethrins and DDT.

Type II.—Allethrin and DDT.

Type III.—Pyrethrins.

The insecticide shall comprise the ingredient materials in the specified proportions in the accompanying table.

When specified in the contract or purchase order, other synergists may be substituted for piperonyl butoxide.

Pyrethrum extract shall dissolve in deodorized kerosene to form a clear solution. The pyrethrin content shall be determined as specified.

Piperonyl butoxide shall be of the technical grade containing not less than 80 per cent alpha-[2-(2-butoxyethoxy)ethoxy]—4, 5-methylenedioxy-2-propyltoluene, also named (butyl carbitol) 6-propyl piperonyl ether. It shall conform to the following requirements:

	Min.	Max.
Specific gravity, 25°/25°C. 1.05	1.05	1.07
Refractive index at 20°C. 1.497	1.497	1.512

The piperonyl butoxide content of the finished insecticide shall be determined as specified.

DDT shall conform to the requirements for grade B of Federal Specification. The finished insecticide shall be tested as specified and shall contain 5 mg.  $\pm$  0.25 organic chlorine per gram of solution.

The technical grade allethrin shall contain not less than 75 per cent by weight of allethrin nor more than 8.0 per cent total free acidity calculated as chrysanthemum monocarboxylic acid. The finished insecticide shall contain not less than 0.15 per cent by weight of allethrin based on analysis of technical grade and weight records.

The odor neutralizer shall be of a grade in commercial use and shall impart a pleasing or neutral odor to the finished insecticide. Only those odor neutralizers which have been approved at time of invitation for bids will be permitted.

Deodorized kerosene shall be free from kerosene odor and practically free from all odor, shall be clear and free from suspended matter and shall conform to the requirements in the accompanying table.

## Insecticide, 75 Percent DDT Water-Dispersible Powder O-I-568

This specification covers one grade of insecticide, water-dispersible powder, 75 per cent dichlorodiphenyltrichloroethane (DDT).

It shall be prepared from dichlorodiphenyltrichloroethane (DDT) together with such biologically inert modifying and conditioning agents as are needed to meet the requirements.

Dichlorodiphenyltrichloroethane (DDT) shall conform to the requirements for grade B of Federal Specification.

The finished insecticide shall contain not less than 36.0 per cent organic chlorine when tested as specified, shall be free flowing, of a light color such as white, cream, or light gray, and shall be readily wettable with water to provide dispersions suitable for use as residual effect insecticide sprays.

Any foam built up in the preparation of test suspensions shall not have such copiousness, stability, or other properties as would prevent the completion of the tests.

The surface-mean particle diameter of the insecticide powder shall be not greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (U. S. Standard No. 200) sieve, and not less than 100.0 per cent shall pass through a 1,000-micron (U. S. Standard No. 18) sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (U. S. Standard No. 60) sieve.

A suspension prepared and tested as specified shall have a pH value not lower than 5.0 and not higher than 10.0. If pH is 8.0 or above, not more than 10.0 ml. of half normal by hydrochloric acid shall be required to neutralize the alkalinity of a 20.0-gram sample when titrated.

The product shall be clean and uniform and free from any defects which may impair its utility.

## Insecticide Powder, Dusting O-I-578

Insecticide dusting powder covered by this specification shall be of but one grade as specified and shall contain only the material specified.

The finished insecticide powder shall be of free-flowing material devoid of lumps, of such fineness that not less than 99 per cent shall pass the U. S. Standard No. 80 (177-micron) sieve (dry test).

The finished insecticide powder shall have a surface mean particle diameter of not more than 5 microns.

It shall consist of 10 per cent by weight of active ingredient and the remainder of diluent. When specified, 0.1 per cent by weight of the coloring agent 1-(2, 4 dinitrophenylazo)-2 naphthol shall be added.

The active ingredient shall be technical-grade dichlorodiphenyltrichloroethane, hereinafter referred to as DDT.

Insecticide powder shall contain not less than 9.5 nor more than 10.5 per cent by weight of DDT.

The melting point of the DDT which has been extracted from the insecticide powder in the manner described, shall be not less than 100°C.

The melting point of a mixture of equal weights of the extracted DDT product and pure recrystallized DDT shall be not less than 100°C.

When specified in the contract on order, the coloring agent shall be a

coal-tar dyestuff which will yield a flesh color to the finished insecticide. The dyestuff shall be 1-(2,4-dinitrophenylazo)-2-naphthol which shall be certified by the Food and Drug Administration as meeting specifications for Drug and Cosmetic Orange No. 17 of Food and Drug Administration Service and Regulatory Announcement No. 3 "Coal Tar Regulations" of September, 1940. The finished insecticide shall yield no color in the water extract.

The diluent shall be either talc or pyrophyllite.

The talc shall be of the laminar type and of such degree of fineness that not less than 90 per cent will pass a U. S. Standard No. 325 (44-micron) sieve (wet test) and not less than 99 per cent will pass a U. S. Standard No. 100 (149-micron) sieve (dry test).

The pyrophyllite shall be of the same degree of fineness as specified for talc.

No more than 1.5 per cent by weight of the DDT present in the finished insecticide powder shall be decomposed after 1 hour.

The manufacturer shall, by a blending operation just prior to the filling of cans, establish uniform batches of not less than 2,000 pounds. These batches shall be given a control or batch number and shall be numbered serially.

#### **Cleaning Compound, Synthetic Detergent, Non-Abrasive, All Purpose P-C-431a**

This specification covers general maintenance commercial cleaning compounds containing synthetic detergents.

The compound covered by this specification shall be of one grade only, and of the following type:

Type I.—Powder or flake.

Type II.—Liquid.

Type III.—Paste.

The compound shall be a uniform homogenous product, free from any objectionable odor, and shall contain synthetic organic detergents. It shall contain no abrasives or fatty acid soaps and shall not be irritating to the skin. It shall be satisfactory for use in floor and wall maintenance cleaning operations with soft or hard water.

The compound shall be stable and not lose effectiveness or otherwise deteriorate when stored in a closed container at room temperature.

The pH value of a 1.0 percent (by weight) distilled water solution of the compound shall be not less than 5.5 nor more than 9.5.

The compound shall be completely soluble in distilled water.

The compound shall be free-rinsing.

**Types I and III.**—A solution of 5 grams of compound in a liter of synthetic hard water shall exhibit a cleaning efficiency of not less than 80 percent.

**Type II.**—A solution of two percent by volume (2 volumes of compound to 98 volumes of synthetic hard water) shall exhibit a cleaning efficiency of not less than 80 percent.

A 0.2 percent (by weight) solu-

tion of the compound shall not cause greater than one-half the loss of 60 degree specular gloss of painted surfaces caused by a 0.2 percent solution of trisodium phosphate.

#### **Insecticide; Liquid (Fly-Spray) O-I-541a**

This spray is intended primarily for use against flies but if properly and thoroughly applied directly to the insects, it will control mosquitoes, bedbugs, ants, fleas, and clothes moth larvae.

The manufacturer is permitted latitude in the selection of raw materials and processes of manufacture to meet the requirements of this specification.

The liquid insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner in the destruction of house flies, shall have no greater detrimental action upon metal or paint (paint, enamel, varnish, lacquer, etc.) surfaces than the specified solvent, and shall have no objectionable odor.

It shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, and shall be clear and free from suspended matter and shall contain other ingredients to make its performance equal to or to exceed the performance requirements.

The liquid insecticide shall meet the following requirements:

Initial boiling point.....Not below 350°F.

End point .....Not above 350°F.

The flash point shall be not less than 125°F. (closed cup).

When tested in accordance with specification, no residual odor shall be present.

It shall meet staining properties and corrosion tests specified.

The liquid insecticide shall be not more than 2 percentage points (units of difference between the percentage kill or knock-down by the "comparison" insecticide and the percentage kill or knock-down by the unknown) below the "comparison" insecticide in "average percentage knock-down" and shall be 16 percentage points or more above the "comparison" insecticide in "average percentage kill" when tested in accordance with the method specified.

#### **Insecticide, Sulfur, Dusting Powder O-I-583a**

Insecticide, sulfur, dusting powder covered by this specification is suitable for the control of mites, insects, and fungus diseases on ornamental shrubs and other plants.

The insecticide shall be of but one type and one grade.

Insecticide, sulfur, dusting powder shall be a finely ground free flowing powder containing not less than 92 percent sulfur by weight. Not more than 8 percent shall consist of conditioning agents and inert material.

The surface-mean particle di-

ameter of the finished insecticide shall not be greater than 12 microns.

Not less than 98 percent of the finished insecticide powder shall pass through a No. 325 U. S. Standard sieve (44 micron) by the wet test.

#### **Insecticide-Concentrate; Liquid Water-Emulsifying (DDT-Nonexplosive Solvent— Emulsifying Agent) O-I-558**

Liquid insecticide-concentrate covered by this specification shall be of one grade as specified.

It shall contain at least 25.0 grams of DDT conforming to the requirements for grade B of Federal Specification per 100 milliliters, a suitable emulsifier in such concentration as will enable the concentrate to meet the requirements of this specification, and a suitable solvent.

When specified in invitation for bids, each bidder shall submit a 1-gallon sample of the insecticide-concentrate which he proposes to furnish, for the purpose of determining compliance with the requirements of this specification.

The insecticide-concentrate shall be clear, homogeneous, and free from particles of undissolved DDT crystals or foreign matter. The appearance of the concentrate shall not be affected when tested as specified.

It shall contain a minimum of 120 milligrams of chlorine per milliliter, when tested as described.

When tested as described, the emulsions formed shall show not more than 5 milliliters of separation when tested at 80°F., nor more than 10 milliliters of separation when tested at 120°F., 30 minutes after formation and after reformation.

The flash point of the finished concentrate shall be not below 140°F.

There shall be no residual stain when the insecticide-concentrate is tested.

There shall be no more than a slight, mild residual odor when tested.

The solvent shall have an initial point not less than 300°F., and an end point not higher than 550°F.

The insecticide-concentrate shall cause no more than a slight discoloration of mild steel strips and shall cause no crazing or softening of strips of polymethyl methacrylate, when tested as described.

#### **Rodenticide; Fumigant Dust 42 Percent Calcium Cyanide Dust) O-R-501**

Fumigant dust rodenticide covered by this specification shall be of one grade. A technical grade of fumigant dust rodenticide shall be essentially produced in accordance with best commercial practice.

The chemical and physical properties shall conform to the following requirements: Calcium cyanide—42.0 per

cent, min.; Particle size—98.0 per cent shall pass a 100-mesh U. S. standard screen; Inert material—58.0 per cent, maximum.

**Compound: Cleaning, Soap-Abrasive-Type  
(For Painted Surfaces)  
P-C-565**

Compound, cleaning, shall be furnished in one type and one grade.

The cleaning compound shall have no objectionable odor and shall not be harmful to the hands.

As received, it shall be a uniform soft paste and shall meet the following requirements:

Matter volatile, at 105°C. shall not exceed 65 per cent, by weight.

It shall contain not more than 0.1 per cent, by weight, free alkali calculated as NaOH and shall contain not more than 0.5 per cent, by weight, free acid calculated as oleic acid.

Alkaline salts, calculated as  $\text{Na}_2\text{CO}_3$ , shall not exceed 5 per cent, by weight.

Insoluble siliceous matter shall be not less than 25 per cent nor more than 50 per cent, by weight. All of the insoluble siliceous matter shall pass through a No. 80 sieve; and not more than 15 per cent of the insoluble siliceous matter shall be retained on a No. 200 sieve.

Anhydrous soap shall be not less than 3.5 per cent, by weight.

**Compound: Grease-Cleaning,  
Solvent-Emulsion-Type  
P-C-576**

Grease-cleaning compound of the solvent-emulsion-type, shall be furnished in one grade and in the following types: Type I—Nonphenolic; Type II—Phenolic. Both shall be a uniform liquid.

Detailed requirements for type I are: the flash point shall be not less than 200°F. (open cup); the compound shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.; the loss in weight shall be not more than 10 per cent after a 24-hour period; and shall be free from phenols.

Type I shall meet stability of emulsion test specified and the test for solubility in kerosene and in water.

Detailed requirements for Type II are: the flash point shall be not less than 200°F. (open cup); shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound); shall have no free alkali; the pour point shall be not more than 35°F.; the loss in weight shall be not more than 10 per cent after a 24-hour period; and the material shall contain not less than 15 per cent nor more than 25 per cent phenols, by volume and shall pass the phenol ( $\text{C}_6\text{H}_5\text{OH}$ ) limitation test.

Type II shall meet stability of emulsion and solubility in kerosene and in water tests.

**Detergent, Hand: Paste and Powder,  
Mechanic's P-D-00221b (Navy Ships)  
(Interim)**

This specification covers paste and powder hand detergents for removing oil, grease and other occupational soils.

The detergents shall be of the following types: Type I—Hand grit-paste detergent. Type II—Hand scouring powder with mineral abrasive. Type III—Hand scouring power with vegetable abrasive.

Type I detergent shall be a uniform mixture of thoroughly saponified soap and mineral abrasives in paste form.

Type II detergent shall be a uniform, free-flowing, non-stratifying mixture of thoroughly saponified soap and mineral abrasives in powder form.

Type III detergent shall be a uniform, free-flowing, non-stratifying mixture of clean corn meal, corn cob meal, wood flour meal, or any combination thereof, thoroughly saponified soap and lanolin in powder form. The mixture shall contain no rosin, sugar, pine oil, nor mineral abrasives, such as lava, pumice, sand or quartz.

Hand detergents shall be mildly perfumed so as to produce a pleasant odor.

The hand detergents shall conform in composition to the accompanying table.

The hand detergents shall produce not less than 100 milliliters foam.

A solution of types II and III prepared as specified shall have a pH of between 9.0 and 10.0. The addition of 2 milliliters of 0.1N hydrochloric acid to this solution shall not reduce the pH to below 9.0 at 25°C.

**Dishwashing Compound, Machine  
P-D-425a**

Specification covers free-flowing, solid form dishwashing compounds suitable for use in spray-type mechanical dishwashing machines, of two types: Type I.—For hard water; Type II.—For soft water.

Type I shall be formulated from alkaline salts, sequestering agents, and wetting agents in proper proportion to provide a compound which will meet requirements of the specification. Dishwashing compound shall be free from objectionable odor in either dry form or in solution.

Foaming of the compound shall not interfere with the normal operations of a dishwashing machine. A solution of the compound shall have an initial pH of not less than 10.5 and not higher than 12.5. The addition of the equivalent of 10.0 milliliters (ml.) of 0.1 N hydrochloric acid shall not reduce the pH of the solution to less than 9.0.

Hard water shall be softened completely as indicated by the absence of turbidity. The weight of precipitate obtained shall not exceed 15 milligrams.

Aluminum test specimens shall not be discolored or etched, nor shall a dense white film be formed on the surfaces. Slight dulling of the surfaces or formation of a faint white film on the test specimens shall not be interpreted as evidence of nonconformity.

Matter insoluble in distilled water shall not exceed 1 percent by weight. The ingredients used shall not be contaminated with toxic amounts of poisonous compounds such as those of arsenic, lead, mercury, antimony, or any other materials having a deleterious effect. The

**COMPOSITION: P-O-00221b**

Characteristics	Percent by weight					
	Type I		Type II		Type III	
	Min.	Max.	Min.	Max.	Min.	Max.
Matter volatile at 105° ± 2°C. ....	55.0	.....	5.0	.....	12.0	.....
Alkaline salts (calculated as sodium carbonate) .....	3.0	2.0	5.0	.....	7.7	.....
Free alkali (calculated as sodium hydroxide) .....	0.1	.....	0.1	.....	0.1	.....
Free acid (calculated as oleic acid) .....	0.5	.....	0.5	.....	0.5	.....
Anhydrous soda soap .....	8.0	.....	17.0	.....	24.5	.....
Lanolin .....	.....	.....	.....	.....	3.0	.....
Matter insoluble in water .....	25.0	50.0	60.0	76.0	45.0	55.0
Fineness of insoluble siliceous matter;						
Percent retained on:						
No. 40 sieve .....	1.0	.....	1.0	.....	.....	.....
No. 60 sieve .....	10.0	20.0	5.0	.....	.....	.....
No. 80 sieve .....	30.0	45.0	.....	.....	.....	.....
No. 100 sieve .....	35.0	55.0	30.0	.....	.....	.....
No. 200 sieve .....	60.0	.....	60.0	.....	.....	.....
Fineness of finished detergent;						
Percent retained on:						
No. 20 sieve <sup>1</sup> .....	.....	.....	.....	.....	10.0	.....
No. 100 sieve .....	.....	.....	.....	90.0	.....	.....
Rosin .....	.....	.....	5.0	.....	.....	none
Sugar .....	.....	none	.....	none	.....	none

<sup>1</sup> Particles shall be soft and friable, not solid or hard.



dishwashing compound shall contain not more than 0.003 percent heavy metals expressed as lead. Not more than 5 percent of the compound shall be retained on a No. 10 standard sieve. The particle size of mechanical mixture of ingredients shall be normally uniform in order to minimize segregation of the ingredients. Not less than 95.0 percent shall fall within one of the ranges:

Range	Passing	Retained
A.....	No. 10 and No. 120	
B.....	No. 16 and No. 170	
C.....	No. 20 and No. 200	
D.....	No. 25 and No. 270	

**Instructions for use:** For water containing hardness (as calcium carbonate) of the range above 7 to 14 grains per gallon (above 120 to 240 p.p.m.), use 5 ounces of type I compound for each 10 gallons of wash water. For water containing hardness in the range above 14 to 20 grains per gallon (above 240 to 342 p.p.m.), use 7 ounces for each 10 gallons of wash water. To determine the amount needed, multiply the indicated dosage at the predetermined hardness by the number of gallons of wash tank capacity and divide by 10. If water hardness is 7 grains per gallon or less, use type II compound.

Three and one-half ounces of type II compound should be added to each 10 gallons of wash water having a hardness (as calcium carbonate) at 7 grains per gallon (120 p.p.m.) or less. To determine the amount needed, multiply 3½ ounces by the number of gallons of wash tank capacity and divide by 10. If water hardness is above 7 grains per gallon use type I compound. During operation of a dishwashing machine not equipped with an automatic dispenser or a detergent meter, the compound should be replenished by adding about one-fourth of the original amount every 10 minutes while tableware is being washed.

#### Soap: Chip P-S-566b

This specification covers a chip soap suitable for washing, and cleaning and scouring purposes with soft water, when the presence of alkaline salts is not desirable. It shall be of but one type.

Chip soap shall be a soap in chip form made from soda and fats, or fatty acids, without rosin, as free as possible from water and all substances other than true soap.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

The soap shall have a light uniform color.

The odor shall not be objectionable in the soap received, or in a hot water solution. The soap shall not leave an objectionable odor on objects after

washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Polish: Automobile, Liquid P-P-546

Polish, automobile, liquid, shall be furnished in one type and one grade.

The liquid automobile polish shall be suitable for use on lacquer, baked enamel, and synthetic enamel finishes and shall have no objectionable odor.

It shall be a stable aqueous emulsion containing a suitable abrasive in suspension. The polish shall be a free flowing fluid that can readily be applied with a cotton cloth and shall spread easily.

It shall meet the following requirements: nonvolatile matter (total solids) shall be not less than 25 per cent, by weight.

Ash content (based on nonvolatile matter shall be not less than 35 per cent nor more than 50 per cent, by weight; Free caustic alkali—none; the neutralization number of the polish shall be not more than 5; all of the material shall pass through a No. 200 sieve, and not less than 95 per cent (based on ash content) shall pass through a No. 325 sieve; the volatile matter shall be essentially water.

#### Powder: Scouring (for) Floors P-P-591a

Scouring powder for floors shall be of the following types: Type I.—For fine marble floors. Type II.—For tile or ceramic and terrazzo floors. Type III.—Soap scouring compound.

Scouring powder for floors shall be white or light gray unscented powder for uniform composition.

Type I, for fine marble floors, matter volatile at 105° ± 2°C. shall not exceed 10.0 per cent; the sum of sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall not exceed 7.0 per cent nor be less than 2.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 85.0 per cent nor more than 95.0 per cent; all of the insoluble siliceous material shall pass through a No. 100 sieve, and the residue retained on a No. 200 sieve shall not exceed 5.0 per cent; the material shall not scratch or discolor marble.

Type II, for tile or ceramic and terrazzo floors; matter volatile at 105° ± 2°C. shall not exceed 10.0 per cent:

the sum of sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>) and anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent shall be not less than 2.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; insoluble siliceous material shall be not less than 80.0 per cent nor more than 95.0 per cent; the insoluble siliceous material shall not yield more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

Type III, soap scouring compound, matter volatile at 150° ± 2°C. shall not exceed 6.0 per cent; carbonated alkali, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), shall be not less than 6.0 per cent nor more than 20.0 per cent; free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent; anhydrous soda soap and/or active anhydrous, saltfree, synthetic detergent shall not be less than 3.0 per cent nor more than 10.0 per cent; insoluble siliceous material shall be not less than 60.0 per cent nor more than 90.0 per cent; the insoluble siliceous material shall yield not more than 1.0 per cent of residue retained on a No. 60 sieve and not more than 10.0 per cent of residue retained on a No. 80 sieve.

#### Glass Cleaner, Liquid P-G-406

Liquid glass cleaner covered by this specification is intended primarily for use on windshields, windows and other glass surfaces and is not intended for use on transparent plastics. It shall be of but one grade and of the following types: Type I.—Regular; Type II.—Antifogging.

The component raw materials in the compound shall be suitable for the purpose intended and as specified herein-after, and shall not include dyes, waxes, perfumes, ammonia, or inorganic alkalis.

It shall be stable under ordinary conditions of storage and handling and shall show no tendency to decompose, emulsify, or separate into layers at normal temperatures.

It shall be nonirritating to the skin and shall contain no toxic ingredients other than denaturants for alcohol.

The odor shall be no more objectionable than the comparison solution specified.

The flash point of the liquid shall be not less than 27°C. (80°F.).

#### COMPOSITION—P-S-566b

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 150°C. ....	10.0	.....
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	6.0	.....
Free alkali, calculated as sodium hydroxide (NaOH) .....	0.2	.....
Matter insoluble in water .....	1.0	.....
Anhydrous soap .....	.....	85.0
Titer of the mixed fatty acids prepared from the soap .....	.....	39°C.....
Rosin .....	None	.....



## COMPOSITION—P-S-563

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....		16.0
Free alkali, calculated as sodium hydroxide (NaOH) .....		0.2
Alkaline salts, calculated as sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ) .....	21	
Matter insoluble in water .....		1.0
Chloride (calculated as sodium chloride) .....		0.5
Anhydrous soap .....	56	
Titer of the mixed fatty acids prepared from the soap.....	39°C.	
Residue retained on a No. 12 sieve .....		1.5
Passing through a No. 140 sieve .....		18.0
Rosin .....		None
Unsaponifiable matter .....		1.0
Starch .....		None

The pH value of the liquid shall be not less than 7.0 nor more than 9.0 at 25°C.

The liquid shall not attack or produce more discoloration of aluminum alloys than that caused by the comparison solution.

The liquid shall not produce more softening, discoloration, or change in the surface appearance of enamel or lacquer finish than the comparison solution.

When the compound is properly applied to glass surfaces and polished, it shall leave the surface free from dust, grime, and ordinary soil materials, and shall produce an appearance equal to or better than that produced by the comparison solution.

The residue on evaporation of 50 milliliters shall not exceed the following requirements:

	Residue in grams
Type I .....	0.005
Type II .....	0.005

Antifogging (type II) shall produce antifogging characteristics on glass.

**Soap, Grit (Cake)**  
**P-S-571b**

Grit cake soap covered by this specification shall be of the following types: Type I.—For fine work (such as required for cleaning glass and enamel ware). Type II.—For rough work (such as required for scouring and scrubbing purposes).

Grit soap shall be made from high quality soap and abrasives, uniformly mixed. Small amounts of other ingredients may be added to improve the quality of the soap.

Each cake of grit soap shall weigh not less than 9 ounces nor more than 10 ounces.

Grit soap, type I, shall be white in color. Grit soap, type II, shall be gray or tan.

The composition of the soap shall conform to the requirements shown in the accompanying tables.

The percentage of moisture and matter volatile at 105 ± 2°C. shall be computed and reported as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 4.0 per cent, in the case of type I and 5.0 per cent in the case of type II.

The material insoluble in water shall consist of not less than 85 per cent ground feldspar and shall be sufficiently fine that, when the soap and other soluble matter are extracted from the cake by digestion with water, 99 per cent of the material insoluble in water shall pass through a No. 100 sieve, and in the case of type I, 95 per cent shall pass through a No. 200 sieve.

Grit soap, type I, shall not scratch window glass or vitreous enameled surfaces.

The average loss in weight of the soap on immersion in water shall be not more than 10 per cent for type I and not more than 5 per cent for type II. Specimen cakes so tested shall show absence of crumbling, severe cracking, or other disintegration effects which indicate unsatisfactory serviceability of the product.

**Soap, Built, High-Titer,**  
**Powdered**  
**P-S-563**

This specification covers a powdered, high-titer, built soap that is suitable for high-temperature laundering of all types of wearing apparel and linens except silk and woolsens.

The composition of the soap shall

conform to the requirements shown in the accompanying table.

The soap shall be a uniform mixture of soap and alkalis in powdered form. It shall be readily soluble in hot water and shall have a light uniform color.

The odor shall not be objectionable in the soap as received, or in a hot-water solution. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Waterless Hand Cleaner**  
**P-H-31 (Navy Ships)**  
**(Interim)**

This specification covers hand cleaner for office or shop use.

Hand cleaner shall be of the following types:

Type I.—Duplicating ink remover.

Type II.—Grease and grime remover.

Hand cleaners shall be smooth, stable homogeneous materials which shall remain smooth and show no separation, rancidity or loss of effectiveness after (a) 16 hours of exposure (in closed issue containers) to 60° ± 2°C. then dropping to room temperature (25° ± 5°C.) and (b) 16 hours of exposure (in closed issue container) to minus 35° ± 2°C. and rising to room temperature.

The pH value at 25° ± 5°C. of a 5 per cent by weight, aqueous solution of the cleaner shall fall within the values of 6.0 and 9.8.

The acid value of the cleaner shall be not more than 25.

The cleaner shall contain no free alkali and shall contain not more than 1.0 per cent by weight of alkaline salts calculated as Na<sub>2</sub>CO<sub>3</sub>.

The cleaner shall be free of grit and abrasives.

Cleaners shall be free of chlorinated solvents.

Use of the cleaner shall not leave

## COMPOSITION OF TYPE I GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and matter volatile at 105° ± 2°C. ....		5.0
Anhydrous soap .....	6.0	10.0
Alkaline salts (calculated as Na <sub>2</sub> CO <sub>3</sub> ) .....		1.5
Free alkali (calculated as NaOH) .....		0.1
Free acid (calculated as oleic acid) .....		5.0
Sugar or other foreign matter .....	None	None
Matter insoluble in water .....	Remainder	Remainder

## COMPOSITION OF TYPE II GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and matter volatile at 105° ± 2°C. ....		6.0
Anhydrous soap .....	8.0	12.0
Alkaline salts (calculated as Na <sub>2</sub> CO <sub>3</sub> ) .....		4.0
Free alkali (calculated as NaOH) .....		0.1
Free acid (calculated as oleic acid) .....		0.5
Sugar or other foreign matter .....	None	None
Matter insoluble in water .....	Remainder	Remainder

# SOAP; GRIT, HAND, CAKE (P-S-576a)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	25.0	.....
Total alkalinity of matter insoluble in alcohol (alkaline salts), calculated as sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ) .....	1.0	.....
Free alkali, calculated as sodium hydroxide (NaOH) .....	.1	.....
Insoluble siliceous material .....	35.0	25.0
Insoluble siliceous material retained on a No. 100 sieve....	2.0	.....
Insoluble siliceous material retained on a No. 200 sieve....	10.0	.....
Rosin .....	5.0	.....
Sugar and foreign matter .....	None	.....
Anhydrous soap .....	.....	35.0

a sticky or otherwise undesirable coating on the skin.

Cleaner shall be free from objectionable odor and shall not leave an objectionable odor on the skin. The cleaner and any ingredient used in formulating the cleaner shall be free of odors characteristic of kerosene and similar petroleum products.

Type I hand cleaner shall be a smooth oil-in-water type emulsion which shall remove duplicating ink from the hands. The cleaner shall be mildly and pleasantly perfumed.

Type II hand cleaner shall be a smooth water-in-oil type emulsion which shall effectively remove grease type of soil from the hands.

When tested as specified the flash point of type II shall be not lower than 40°C. (104°F.).

## Soap: Grit, Hand, Cake P-S-576a

Hand grit soap shall be a cake soap containing clean, finely divided insoluble siliceous matter, as free as possible from water, uncolored, mildly perfumed unless otherwise specified, and well compressed in firm, smooth cakes. It shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 25 per cent.

Unless otherwise specified, each cake shall weigh not less than 8 ounces, nor more than 16 ounces.

## Soaps, Liquids and Paste (Automobile, Floor, and General Cleaning) P-S-598b

This specification covers liquid and paste type soaps suitable for use in general cleaning with soft water.

Soap covered by this specification shall be of the following types and classes:

Type I.—Liquid.

Type II.—Paste.

Class A.

Class B.

Type I shall be uniform liquid soap made solely from whole neutral vegetable oils or distilled vegetable-oil fatty acids and potash.

Type II shall be a uniform gel or paste soap made solely from whole neutral vegetable oils or distilled vegetable-oil fatty acids and potash, and shall conform to the requirements set forth in this section.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture (type II only) shall be computed and reported. The percentage of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent.

Type I, liquid soap shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not

leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste of a yellowish-white to brownish-yellow color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

Type II in soft water shall act as a cleaner and shall not damage surfaces on which it is used.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

## Soap: Low-Titer (for Low- Temperature Washing) P-S-600a

Type I.—Bar form.

Type II.—Other forms:

Class A.—Granular.

Class B.—Powdered

Class C.—Flake.

The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 125° to 130°F. The material shall not leave an objectionable odor on objects after wash-

## COMPOSITION (P-S-598B)

	Type I		Type II			
	Class A		Class A		Class B	
	Mini- mum Per Cent	Maxi- mum Per Cent	Mini- mum Per Cent	Maxi- mum Per Cent	Mini- mum Per Cent	Maxi- mum Per Cent
Moisture (toluene distillation method) .....	.....	.....	.....	55	.....	60
Total matter insoluble in alcohol.....	.....	0.5	.....	1.0	.....	1.0
Free alkali, calculated as potassium hydroxide (KOH) .....	.....	.05	.....	.1	.....	.1
Free acid, calculated as oleic acid.....	.....	.1	.....	.2	.....	.2
Alkaline salts, calculated as potassium carbonate (K <sub>2</sub> CO <sub>3</sub> ) .....	.....	.1	.....	.2	.....	.2
Matter insoluble in distilled water....	.....	.1	.....	.2	.....	.2
Chloride, calculated as potassium chloride (KCl) .....	.....	.3	.....	.5	.....	.5
Unsaponified and unsaponifiable matter .....	.....	.4	.....	.8	.....	.8
Anhydrous soap, calculated as potash soap .....	20	.....	43	.....	43	.....
Total sodium compounds, calculated as Na <sub>2</sub> O .....	.....	.2	.....	.5	.....	.5
Glycerol .....	.....	1.8	.....	4.0	.....	3
Rosin .....	.....	None	.....	None	.....	None
Sugar .....	.....	None	.....	None	.....	None
Iodine number (WIJS) of mixed fatty acids derived from the soap....	80	150	80	150	100	150
Acid number of mixed fatty acids derived from the soap .....	195	205	195	205	195	205

# QUANTITATIVE REQUIREMENTS (P-S-600a)

	Type I		Type II	
	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent
Matter volatile at 105° ± 2°C. ....	32.0	.....	7.0	.....
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	2.0	.....	9.0	.....
Water soluble sodium silicate .....	.....	.....	.....	4.0
Free alkali, calculated as sodium hy- droxide (NaOH) .....	0.1	.....	0.4	.....
Free acid, calculated as oleic acid .....	0.1	.....	None	.....
Matter insoluble in water .....	0.5	.....	1.5	.....
Rosin .....	None	.....	None	.....
Sugar .....	None	.....	None	.....
Copper (parts per million) .....	.....	.....	10.0	.....
Unsaponified saponifiable matter .....	1.0	.....	1.0	.....
Anhydrous soap .....	.....	64.0	.....	81.0
Titer of the mixed fatty acids prepared from the soap .....	22°C.	.....	22°C.	.....
Iodine number (Wijs) of the mixed fatty acids prepared from the soap .....	90.0	74.0	90.0	74.0
Acid number of the mixed fatty acids prepared from the soap .....	205.0	180.0	205.0	180.0
Residue retained on a No. 12 sieve (class B only) .....	.....	.....	1.5	.....
Organic oxidation inhibitor .....	.....	.....	.....	*0.10

\*Unless otherwise specified.

ing with a water solution of the soap and rinsing thoroughly with hot water.

Low-titer soap shall conform to the requirements in the accompanying table.

The percentage of matter volatile at 105°C. shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on the basis of material containing 32.0 per cent of volatile matter for type I or 7.0 per cent of volatile matter for type II. Percentages are by weight.

Type II shall be as resistant as possible to development of rancidity and heating during storage. The product shall have no objectionable odor for a minimum of 15 days.

## Soap, Laundry (Chip, Rosin-Type) P-S-581b

This specification covers rosin-type chip laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 per cent.

Laundry chip soap shall be a well-made, uniformly mixed soap in chip form, made from soda, rosin, and fats, and shall be of a uniform color. It shall dissolve readily in hot water.

The odor shall not be objection-

able in the soap as received or in a hot solution of the soap in water and not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

## Soap-Powder P-S-606a

Soap-powder shall be of but one type. It shall be a uniform mixture of soap and sodium carbonate, and/or other alkaline salts, in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and shall be free from objectionable odor.

Anhydrous soap shall be not less than 15.0 per cent; alkaline salts, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), shall be not less than 30.0 per cent; the sum of anhydrous soap and alkaline salts, calculated as sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), shall be not less than 55.0 per cent.

## Soaps, Potash-Linseed Oil (Liquid and Paste, Floor and General Cleaning) P-S-603b

This specification covers liquid- and paste-type linseed oil soaps suitable for use in washing floors and linoleum. It shall be of the following types:

Type I.—Liquid.

Type II.—Paste.

Type I, liquid soap, shall be a uniform liquid soap made solely from whole neutral raw linseed oil and potash.

Type II, paste soap, shall be a uniform translucent, firm gel or paste made solely from whole neutral raw linseed oil and potash.

The composition of the soap shall conform to the requirements shown in the accompanying table. Percentages are by weight.

The percentage of moisture shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent (type II only).

Type I, liquid soap, shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste soap of a yellowish-white to greenish brown color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

A solution of type II in soft water shall act as a cleaner and shall not damage floor surfaces.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

## COMPOSITION (P-S-581b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C .....	.....	15.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	.....	12.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	20.0
Anhydrous soap .....	72.0	.....
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....



## COMPOSITION (P-S-603b)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Moisture (toluene distillation method) .....				55
Total matter insoluble in alcohol .....		0.5		1.0
Free alkali, calculated as potassium hydroxide (KOH) .....		.05		.1
Free acid, calculate as oleic acid .....		.1		.2
Alkaline salts, calculated as potassium carbonate ( $K_2CO_3$ ) .....		.1		.2
Matter insoluble in distilled water .....		.1		.2
Chloride, calculated as potassium chloride (KCl) .....		.3		.5
Unsaponified and unsaponifiable matter .....		.4		1.0
Anhydrous soap, calculated as potash soap	20		43	
Total sodium compounds, calculated as $Na_2O$ .....		.2		.5
Glycerol .....	1.8		4	
Rosin .....		None		None
Sugar .....		None		None
Iodine number (WIJS) of mixed fatty acids derived from the soap .....	175		175	
Acid number of mixed fatty acids derived from the soap .....	190	205	190	205

**Soap, Toilet (Floating, White)**  
**P-S-616b**

This specification covers a white floating cake soap suitable for use in personal bathing and general cleaning with soft water. It shall be of but one type.

White floating toilet soap shall be a cake soap of white color, mild and pleasant in odor, thoroughly saponified, and so prepared as to float on water.

The material shall conform to the chemical requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 34 per cent.

**Soap, Medium Titer**  
**P-S-00602**  
**(interim)**

This specification covers soap intended primarily for use in cleaning wool fabrics, other fabrics, finished surfaces, leather, and other articles, where comparatively moderate-temperature washing solutions are indicated.

Soap covered by this specification shall be of one type and the following forms: Form 1.—Chip; Form 2.—Granular or powdered.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 7 per cent.

The soap shall be of a white or light amber color. When specified, the color of the soap furnished shall con-

form to that of the accepted bid sample.

The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 120°F. The soap shall not leave an objectionable odor on objects after washing with a

water solution of the soap and rinsing thoroughly with hot water. When specified, the odor of the soap, under the above conditions, shall conform to that of the accepted bid sample.

**Soap-Borax Powder**  
**For Dispensers**  
**P-S-628a**

This specification covers soap-borax powder mixtures suitable for use in dispensers and of the following types:

Type I.—Without lanolin.

Type II.—With lanolin.

Soap-borax powder for use in dispensers shall be a uniform mixture of a thoroughly saponified soap and borax ( $Na_2B_4O_7 \cdot 10H_2O$ ), free from grit and harsh abrasives, and shall be uniform, free-flowing, and noncaking.

The composition of soap-borax powder shall comply with the requirements specified in the accompanying table.

Compute the percentages of the constituents on the basis of the material as received, calculating the borax as the decahydrate— $Na_2B_4O_7 \cdot 10H_2O$ . Borax ( $Na_2B_4O_7 \cdot 10H_2O$ ) effloresces in warm, dry air. If this has occurred, the sum of the percentages from the computation on the "as-received" basis will exceed 100. If the results are greater than 100 per cent, calculate the percentages of anhy-

## REQUIREMENTS OF WHITE FLOATING SOAP (P-S-616b)

	Test	
	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	34.0	20.1
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	2.0	
Free alkali, calculated as sodium hydroxide (NaOH) .....	.1	30.2
Chloride, calculated as sodium chloride (NaCl) .....	1.0	620.1
Matter insoluble in water .....	.4	30.3
Anhydrous soap .....	62.0	560.1
Rosin .....	None	70.1
Sugar .....	None	170.5
Acid number of the mixed fatty acids prepared from the soap .....	212	100.1

## COMPOSITION (P.S. 00602)

	Minimum Maximum	
	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....percent		7.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	do	6.0
Sodium silicate .....	0.25	2.0
Free alkali, calculated as sodium hydroxide (NaOH) percent		0.2
Free acid, calculated as oleic acid .....	do	0.2
Matter insoluble in water .....	do	1.5
Rosin .....		none
Sugar .....		none
Copper, parts per million .....		10.0
Anhydrous soap .....	88.0	
Titer of mixed fatty acids prepared from the soap....	18°C.	33°C.
Iodine number (wijs) of the mixed fatty acids prepared from the soap .....	75.0	135.0
Residue retained on a No. 12 sieve (Form 2 only) ....percent		1.5
Organic oxidation inhibitor .....	do	0.05



## COMPOSITION (628a)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Anhydrous soda soap .....	23.0	27.0	35.0	39.0
Borax (calculated as $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ ) .....	72.0	77.0	57.0	63.0
Lanolin .....	.....	0.0	2.5	3.5
pH value .....	9.0	10.2	8.5	9.5
Matter insoluble in water .....	.....	0.2	.....	0.3

## COMPOSITION (P-S-626c)

	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	.....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	2.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	0.1
Matter insoluble in water .....	.....	0.2
Anhydrous soda soap .....	91.0	.....
Rosin, sugar, and foreign matter .....	.....	None

drous soap and of borax ( $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ ) by the following formula:  

$$\% \text{ on } 100\% \text{ basis} = \frac{A \times 100}{S}$$

where:

A=percentage found

S=sum of the percentages on the "as-received" basis

The soap-borax powder shall produce not less than 100 milliliters foam.

The soap-borax powder shall comply with the following fineness requirements: Type I, maximum retained on No. 12 U. S. standard sieve, 0.00 per cent; minimum on No. 45 sieve, 5 per cent; minimum on No. 100 sieve, 45 per cent. Type II, maximum retained on No. 30 U. S. standard sieve, 0.10 per cent; minimum retained on No. 45 sieve, 5 per cent; minimum retained on No. 100 sieve, 20 per cent.

The soap-borax powder shall be uncolored or tinted.

Rosin, sugar, and other foreign matter shall not be present.

Unless otherwise specified, the soap-borax powder shall be mildly perfumed.

**Soap, Toilet (Powdered,  
Dispensers)  
P-S-626c**

The powdered toilet soap shall be of but one type. It shall be a thoroughly saponified soap in powdered form, made from soda and fats, shall be a uniform, free-flowing, noncaking powder, and shall lather freely when used with cold, soft water at room temperature.

Composition shall comply with the requirements in the accompanying table.

The percentage of matter volatile at 105° ± 2°C. will be computed on the basis of the soap as received, but all other constituents will be calculated to the basis of material containing 6 per cent of matter volatile at 105° ± 2°C.

The powdered toilet soap shall comply with the following fineness requirements: maximum retained on a No. 12 U. S. standard sieve, 1.5 per cent;

minimum on a No. 45 U. S. standard sieve, 50 per cent; and minimum on a No. 100 U. S. standard sieve, 90 per cent.

Unless otherwise specified, powdered toilet soap shall be mildly perfumed and, unless otherwise specified, it shall be uncolored.

**Soap, Toilet (Cake, Milled)  
P-S-621c**

This specification covers a milled cake soap suitable for use in personal bathing. It shall be of but one type.

The soap shall be thoroughly saponified and its composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and

volatile matter content of 15 per cent.

Milled toilet soap shall be a high-grade, milled cake soap, as free as possible from water, either colored or uncolored, well compressed in firm, smooth cakes of a size and shape specified in the contract or order. It shall lather freely when used with cold water. Unless otherwise specified, the soap shall be mildly perfumed.

**Soap, Laundry (Powdered)  
P-S-596c**

This specification covers a white or light amber powdered laundry soap suitable for use in high temperature laundering of soiled cotton fabrics, and for general cleaning of soiled cotton fabrics, and for general cleaning with soft water. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 6 per cent.

Powdered laundry soap shall be a soap in powdered form made from soda and fats, without rosin, and shall be of a white or light amber color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Soap, Laundry (Granulated,  
Rosin-Type)  
P-S-583b**

This specification covers rosin-type granulated laundry soap for use in heavy-duty laundering, such as heavily-

## COMPOSITION (P-S-621c)

	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	.....	15.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	1.7
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.1
Matter insoluble in water .....	.....	.4
Unsaponified saponifiable matter (free fat) .....	.....	.3
Anhydrous soap .....	83.0	.....
Rosin, sugar, and foreign matter .....	.....	None

## COMPOSITION (P-S-596c)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 150°C. ....	.....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	6.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	0.2
Matter insoluble in water .....	.....	1.0
Anhydrous soap .....	89.0	.....
Residue retained on a No. 12 sieve .....	.....	1.5
Rosin .....	.....	None
Titer of the mixed fatty acids prepared from the soap ...	39°C.	.....

soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

Granulated laundry soap shall be a well-made, uniformly mixed soap in granulated or powdered form, made from soda, rosin, and fats, and shall be of a uniform color.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Soap; Laundry, Ordinary, Bar P-S-531c

This specification covers an ordinary laundry bar soap, containing rosin for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where normal wash temperatures are involved. Ordinary laundry bar soap shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 36 per cent.

The soap shall be a well-made, uniformly mixed laundry or common soap in bar form, made from soda, rosin, and fats. The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on fabrics or objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

#### Insecticide, Lindane (Water-Dispersible Powder) O-I-535

The insecticide covered by this specification is a 75 per cent lindane water-dispersible powder designed to provide a water dispersion suitable for use as a residual effect spray for the control of mosquitoes, flies, sand flies, mites (chiggers), ticks, and fleas. It shall be of one type and one grade.

The insecticide shall be composed of lindane and inert ingredients, as follows:

The insecticide shall be compounded to contain a concentration of 75.0 per cent lindane by weight, and the finished insecticide shall contain not less than 534 mg. nor more than 570 mg. of organically bound chlorine per gram.

The lindane shall be the gamma isomer of 1,2,3,4,5,6-hexachlorocyclohex-

ane of a purity not less than 99 per cent. It shall be a white crystalline substance having a melting point not less than 112°C.

The inert ingredients shall be such biologically inert diluting, modifying, and conditioning agents, free of organically bound chlorine.

The insecticide shall be a free flowing powder, readily wettable with water and shall be of a light color such as white, cream, or light gray.

In the preparation of test suspensions of the insecticide powder, any foam produced shall not have such copiousness, stability, or other properties as would prevent the completion of the tests specified.

The surface-mean particle diameter of the insecticide powder shall not be greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (No. 200) U. S. Standard sieve, and not less than 100.0 per cent shall pass through a 1-mm. (No. 18) U. S. Standard sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (No. 60) U. S. Standard sieve.

A suspension of the insecticide powder shall have a pH value not lower than 5.0 and not higher than 9.0. If pH is above 8.0, not more than 10.0 ml. of half normal hydrochloric acid shall be required to neutralize the alkalinity of a 20.0 gm. sample when titrated.

The product shall be clean and uniform, and free of any defects which might impair its utility.

#### Cleaning Compound, Alkali Type P-C-436a

This specification covers one class of alkaline cleaning compound suitable for use in the hot soak tank cleaning of ferrous and nonferrous alloy parts.

The raw materials used in manufacture of these compounds shall be of high quality, intimately assembled and processed so as to produce a granular product which will remain uniform in composition and show no evidence of segregation or caking during handling or storage. The compound when used as a hot soak cleaner at boiling temperature and a concentration of 7.5 percent (7.5 grams of compound in 100 ml. of solution) shall effectively remove asphalt, mineral oil, grease and road dirt from metal parts. Nonferrous metals shall not be attacked under these conditions.

The cleaning compound is not required to conform to definite chemical composition requirements. The manufacturer is given wide latitude in the selection of raw material and processes of manufacture, provided that the product meets all applicable requirements of this specification. The compound shall not contain any toxic or volatile substances, such as chlorinated hydrocarbons, phenolic compounds, benzene, or the like.

The cleaning compound, alkali-type, shall be equal or superior in effectiveness to the comparison formula in all respects when tested. The compound covered by this specification shall be tested simultaneously with the comparison alkali-type cleaning compound.

The cleaning compound covered by  
(Turn to Page 265)

#### COMPOSITION (P-S-583b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	.....	10.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	.....	14.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	20.0
Anhydrous soap .....	75.0	.....
Residue retained on a No. 12 sieve .....	.....	2.0
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....

#### COMPOSITION (P-S-591c)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C. ....	.....	36.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride .....	2.0	11.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	.5
Free acid, calculated as oleic acid .....	.....	.5
Matter insoluble in water .....	.....	1.0
Chloride, calculated as sodium chloride (NaCl) .....	.....	1.0
Rosin .....	.....	25.0
Anhydrous soap .....	52.0	.....
Titer of the mixed fatty acids prepared from the soap .....	29°C.	.....

# The Peet-Grady Method

Official Method of the Chemical Specialties  
Manufacturers Association\* for Evaluating  
Liquid Household Insecticides, Latest Revision

THE Peet-Grady Method was adopted as an official test in 1932, and has since been improved in certain details, all improvements have been officially accepted after thorough investigation by the CSMA Insecticide Scientific Committee. Inquiries regarding the method should be addressed to the chairman of this Committee. This method of test is a means of determining the relative efficiency of contact insecticides dissolved in fly spray base oils suitable for household and industrial use. The method does not apply to cattle sprays having viscosities materially higher than those of fly spray base oils. As a biological test it is subject to variations which accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is designed to be used in conjunction with the "Official Test Insecticide" as the basis of comparison.

Two methods, or procedures, are permitted. The small group method is substantially the same as outlined at the time the test was adopted in 1932 while the large group method was adopted officially in 1938. Both methods are being used extensively, and if correctly employed, evaluation by either test may be expected to be in reasonable agreement.

## II. APPARATUS

**A. Reference Insecticide:** The reference insecticide shall be the current Official Test Insecticide (OTI) prepared and sold by the CSMA, 110 E. 42nd Street, New York 17, New York. The OTI is carefully standardized by both biological and chemical analysis and it must not be diluted or changed in any manner.

**B. Atomizer:** The Special Atomizer No. 5004, constructed by the De Vilbiss Co., Toledo, O., must be used, preferably with the De Vilbiss No. 631 cut off. This atomizer shall be operated with air free of contaminants and maintained at a constant pressure of  $12.5 \pm 0.5$  pounds per sq. in. measured by a gage of not more than 30 pounds capacity or a manometer. The atomizer shall deliver 12 ml. of OTI in 24 seconds (tolerance  $\pm 1$  second) and this should be checked frequently. Atomizers failing to meet this test should be

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

repaired by the manufacturer or replaced.

**C. Test Insect:** The test insect shall be the adult house fly (*Musca domestica* L.) reared from a strain mixed under the supervision of the CSMA. Flies in test groups shall be not less than 3 nor more than 6 days old at the time of testing, and must meet the CONDITIONS FOR OFFICIAL EVALUATION, Section IV.

**D. Fly Cages:** Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and at least 2 sides and the top are screened. The floor of the cage preferably is detachable, to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and fly wire screening, and are fitted with a sleeve opening, rubber membrane, or a door.

**E. Rearing Room:** This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of  $82 \pm 2$  degrees Fahrenheit and relative humidity of  $50 \pm 5$  percent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

**F. Testing Room:** This room may be of any convenient size capable of holding the standard Peet-Grady Chamber and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees Fahrenheit. It is suggested that relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

**G. Peet-Grady Test Chamber:** The Test Chamber shall be rigidly constructed of wood, metal, or other suitable material. The inner surface shall be smooth, impervious to the usual household type of insecticide, and as free from cracks, projections, ledges, etc., as possible. The chamber shall be a 6-ft. cube by internal measurements, with a tolerance of plus or minus 1 in. for any dimension. One wall shall contain a tight-fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. One or more of the walls, or the

ceiling, shall contain an observation window, preferably on two opposite walls. Illumination is provided by means of a glass window in the ceiling, above which is placed an electric light of such intensity as to permit flies to be observed easily. An opening covered with 10 or 12-mesh wire screen shall be connected to an exhaust fan duct and the size and the location of this opening in relation to ventilation openings in the wall must be such that thorough ventilation of the chamber is obtained. Preferably, the exhaust opening should be 1 sq. ft. or larger and located in or near the ceiling. Air inlet openings may be ports approximately 6 x 6 in. in size, covered with screen on the inside and provided with tight fitting hinged covers on the outside. Four ports located near the 4 lower corners, or 8 ports located near both the 4 upper and 4 lower corners are satisfactory, but the ventilation ports should not be on the same level as the exhaust port. The entrance door may be used alone or in conjunction with the ventilation ports if a screen door is provided and thorough ventilation of the chamber is obtained. If the temperature of the air used to ventilate the chamber is lower than 80° F., heaters may be used to obtain the temperature of  $82 \pm 2^\circ$  F. required during the test period. Such heaters must be removed before a test is started. Openings shall be provided for the introduction of the insecticide; these must be so constructed and so located that uniform distribution of the spray is effected without undue ventilation of the chamber. These openings may be round 1 in. holes located not less than 6 in. or more than 12 in. from the ceiling and 18 in. from the nearest corner on each wall, or a single hole may be provided in the center of each wall 6 to 12 inches from ceiling.

**H. Exhaust Fan:** An exhaust fan moving not less than 1,000 cu. ft. of air through the chamber per min. shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

**I. Insecticide Paper:** Unsized, non-glazed absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. Two overlapping sheets of 36-40 in. width or one sheet of 6 ft. width may be employed. No special weight is specified although 60-80 lb. gray bogus paper has been found excellent.

**J. Apparatus for Picking Up Flies:** Any convenient means of picking up



the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and it shall be cleaned after each test with the same materials used in cleaning the chamber.

### III. PROCEDURE

#### A. Rearing and Handling Flies:

In this procedure, eggs are transferred to medium suitable for the development of larvae, the pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing. A culture is defined as all adults resulting from the seeding of eggs collected at one time on a given date.

**Larval medium:** The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry larval medium (1) with approximately 750 ml. of an aqueous suspension containing 15 gm. moist cake yeast and 10 cc. Diamalt, (2). Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

**Eggs:** Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition media in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash all the eggs together in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 ml. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 ml. tap water to measure and to scatter the eggs in a pit or trench  $\frac{1}{2}$  in. deep and located in the center of the jar of larval medium. Cover the eggs with loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 in. separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

**Pupae:** Mature larvae migrate to the top portion of the medium and

(1) Mixed according to CSMA specifications by the Ralston Purina Co., St. Louis, Mo.

(2) Standard Brands Inc. products. These can be obtained from local distributors in most cases.

normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of medium containing pupae may be loosened, poured into a shallow tray, and air dried at room temperature. An electric fan may be used to hasten drying. Pupae may be separated from the dry medium by sprinkling the pupae-medium mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Any method that permits at least 95 per cent of flies to emerge is considered satisfactory.

All of the pupae maturing on a given day are combined into one lot, mixed, and measured into test units. Each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cu. in. of space per pupa. If the large group procedure is used the test unit consists of approximately 500 pupae. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

**Adult Fly Food:** The food for adult flies shall consist of 5 per cent spray dried, non-fat-milk solids and 2 per cent granulated sugar thoroughly dispersed in water. Roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food. A 40 per cent formalin solution may be added to the food at the rate of 1/1500 to delay souring. Each cage is supplied daily with a dish containing at least 15 ml. food for each 100 flies, and so prepared as to prevent the flies from drowning. Satisfactory food must be available to the flies at all times.

**B. Testing Flies:** Before a fly spray test is started, the Peet-Grady chamber must be clean and have clean paper on the floor, all ports and openings must be closed, the temperature must be  $82 \pm 2^\circ\text{F}$ ., and all windows must be shaded equally. In both procedures, only flies which are capable of flying may be liberated into the Peet-Grady chamber. In the large group procedure all flies in one cage are used in a single test, but in the small group method a sample of  $100 \pm 5$  flies is used in each test. Samples may be taken by liberating the flies directly into the chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. The order of spray treatments must be randomized as discussed in Section IV, paragraph 6.

Immediately after liberating the flies in the chamber, a total of 12 ml. of insecticide shall be sprayed in equal quantities through each spray hole. The nozzle of the atomizer shall be oscillated slowly in a horizontal plane to avoid spraying walls and ceilings and to effect uniform distribution of the spray. This procedure shall be completed within one minute from the time the spraying was started and the chamber must remain closed at a constant temperature in the

range of  $82 \pm 2^\circ\text{F}$ . for a total of 10 min. At the end of this period the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The paralyzed flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph D. These flies may be counted when they are picked up or later, depending upon which time is most convenient. During the subsequent 24-hr. recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than  $\frac{3}{4}$  inch above the floor of the cage and flies cannot drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution also is satisfactory.

The unparalyzed flies in the chamber at the end of the 10-min. exposure period must be counted and discarded.

After a test is completed, all toxic residues must be removed from the chamber. The paper on the floor must be renewed and the inside walls and ceiling must be cleaned thoroughly. Wiping with a clean cloth saturated with alcohol containing 10 per cent acetone or washing with soap and water will remove a number of toxic residues. However, special cleaning precautions may be required after tests with certain chemical compounds in order to remove their toxic residues. Contamination by many compounds may be detected by holding flies with food overnight in the cleaned chamber. The chamber is considered contaminated if more than 8 per cent of flies are either paralyzed in 30 minutes or are dead in the morning.

**C. Assembling the Data:** The number of unparalyzed flies must be counted and recorded at the end of the 10-min. exposure period. The dead flies are counted 24 hours ( $\pm 1$  hr.) later preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If paralyzed flies were counted as they were collected, the sum of paralyzed and unparalyzed flies yields the total flies in the test. If paralyzed flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170°F for a few minutes, after which they are counted. The sum of recovered and dead flies yields the paralyzed flies and this sum added to the unparalyzed flies yields the total flies used in the test. The mortality is the per cent dead of total flies and the knockdown is the per cent paralyzed of total flies.

### IV. CONDITIONS FOR OFFICIAL EVALUATION

1. The tests shall be conducted in accordance with the procedure previously described and no official Peet-Grady rating may be assigned unless the tests meet all requirements.
2. At least 2 cultures of flies shall be used in making an official evaluation.

(Turn to Page 267)



# Aerosol Insecticides Storage Test

Tentative official method of the Chemical  
Specialties Manufacturers Association  
for Storage of Aerosol Insecticides

**A**EROSOL insecticides are subjected to storage tests in order to ascertain the shelf-life of the complete package and to evaluate the degree of suitability of the valve and container components for their intended uses. It is impractical to promulgate a set procedure for conducting storage tests since variations will be necessitated by differences in the ultimate objective. For example, the primary interest of one investigation may be in valve evaluation, while another may be principally concerned with container suitability or the shelf-life of a new product in an existing package. It follows that storage test methods must be flexible enough to accommodate the small procedural changes thus required. An attempt will be made only to outline the principles to be observed in establishing a definite procedure in order to allow the individual investigator the prerogative of adapting these to satisfy his particular requirements.

There are three major points that should be borne in mind when a storage test of aerosol containers is to be made. First, sufficient samples should be available to replace any containers that fail during the course of the test and to make it possible to later extend the storage period, if desired. There is nothing more discouraging than reaching the end of a long storage test with a quantity of samples which, due to unusual conditions arising, are insufficient in number to provide a sound basis for drawing valid conclusions. Second, it is extremely important that the examinations of the test pack be conducted according to standardized procedures and at regularly scheduled intervals. Only if this rule is followed can there be any assurance that important developments will not be missed and that the results will correlate with those of other storage tests. Third, the examinations should be made by personnel familiar with the problem being investigated and well qualified to evaluate the condition of the containers, valve components and product. It is highly desirable to have the same individual conduct all the examinations of a given test pack since most of the data is not obtained by direct measurement and is, therefore, not entirely objective in nature. This and a standardized examination procedure will do much to minimize the effect of the human element.

Before any samples are committed to storage, certain information should be made available. So that the test

pack can be intelligently set up, all pertinent background information concerning the problem should be assembled. Certain tests should be conducted to eliminate, insofar as possible, defective containers or valves from the tests, although the frequency of such defects should certainly be recorded. To make this segregation possible, pressure determinations and hot bath, vial leakage and spray tests should be made on each filled container. Conditions of filling and handling should approximate as closely as possible those that would be encountered commercially.

There are two types of storage tests that may be performed with aerosol insecticides. The first is the so-called "live" storage test, in which the valves are actuated and the determinations made at relatively frequent intervals. The purpose is, of course, to simulate conditions encountered during use of aerosol dispensers. The second type of test, often referred to as "dead" storage, simulates conditions found in warehouse storage and is performed when shelf-life information is sought.

## Live Storage Test

Containers for "live" storage tests are generally stored at room temperature. In addition, a higher temperature storage, e.g., 98°F., is frequently employed. Use of the latter storage temperature is particularly desirable when a new valve or product is being evaluated. The use of storage temperatures below 32°F. or the alternate exposure of test containers to sub-freezing and elevated temperatures is said to have considerable merit in the screening of new valves or new valve materials.

If the purpose of the investigation is to evaluate a valve, half the samples at each storage temperature should be kept in an inverted position. If the product or any constituent thereof exerts a detrimental effect on the sealing material of the valve, often the conditions may be observed more readily in the case of the inverted cans. Six cans inverted and six upright for each temperature is the minimum sample of each variable that should be considered. If the test is to involve only one storage condition, ten to twelve cans per variable, upright and inverted, is a more desirable sample size.

Examinations of "live" storage cans are usually made weekly and possibly oftener if completion of the test in less total elapsed time is necessary. The tests are usually considered com-

pleted when 10 grams or less of product remains in the containers. Extension of the test beyond this point may cause erratic and unreliable results. At each examination weight loss and discharge rate (10 seconds) are measured. The determination of internal pressure at each examination is usually not necessary, but it is recommended that pressures be taken initially and two or three other times, equispaced during the test. Particle size may also be determined, if desired. When any valve becomes inoperative or fails to operate properly, the container and valve should be torn down immediately to ascertain the cause of failure. Each container and valve should be critically examined as soon as possible after the final valve actuation of the test.

## Dead Storage Test

A wider range of storage conditions are employed in "dead" storage tests than is the case with "live" storage, 95-100°F., room temperature, 130°F., and below freezing (0-32°F.) being used. Standard procedure usually calls for the use of 98°F. and room temperature storage, while the other temperatures are employed in special cases. Temperatures of from 95° to 100°F., often referred to as incubation temperature, may accelerate container corrosion and leakage if the containers are so predisposed. However, incubated storage should always be used in conjunction with room temperature since it is often difficult, if not impossible, to predict normal shelf-life on the basis of 98°F. tests alone. Storage below freezing is valuable for evaluating the sealing efficiency and suitability of the gasket materials in insecticide valves. Storage at 130°F. is employed when the resistance of the container to structural fatigue is to be determined. Containers at each storage temperature should be held both upright and inverted.

Examinations of containers in dead storage are usually made following 1-, 3-, and 6-months storage and at 6 month intervals thereafter until the test is completed. Most investigations are concluded after 24-months storage, but they may be extended for a much longer period, if the previous results and the objective so require.

Samples should be provided for the "dead" storage test so that a minimum of two dispensers of each variable from each storage temperature can be evaluated and torn down at each scheduled examination. The other samples

remain untouched, except for weighing, until they are needed at a subsequent examination. A minimum of twelve extra containers per variable should be stored at each temperature to allow for extension of the test, if such later becomes necessary, and to allow a larger number of samples to be inspected at the final examination. Thus, the minimum suggested number of cans per product, container or valve variable becomes:

$$4np(4 + y)$$

where:  $y$  designates the duration of the test in years,

$n$  the number of storage temperatures, and

$p$  the number of storage positions to be employed.

### Examination

The examination of the pack may be divided into performance determinations, container and valve inspection, and product evaluation. The performance of the complete aerosol insecticide package is ascertained by making weight loss, discharge rate, pressure and possibly particle size determinations. If entomological data is required, such may be obtained by standard procedures now extant. As a check on filling, the volatile/non-volatile ratio may be determined following these tests. After expulsion of the propellant, the product should be transferred and the container and valves carefully torn down and examined. The metal valve parts should be inspected carefully for evidences of corrosion, and the rubber or plastic components for swelling, softening or disintegration. Conditions in the container interiors should then be noted with special emphasis on any staining, detinning, rusting, pitting or other indications of corrosion that may be present. Microscopic examination of valve and container components is recommended for without this assistance important and indicative developments may be overlooked. The product from the test containers is usually examined for color change, precipitate or sludge formation. If corrosion is found or suspected, it is suggested that the product be analyzed for the moisture, iron and tin content. If any abnormal or undesirable conditions are found in performance of valve or product, sufficient additional samples of the same lot should be examined to confirm the findings.

### Safety Precautions

Aerosol storage tests involve a container, valve or product of unknown compatibility and performance. For this reason, and remembering the violence that may accompany the bursting of aerosol containers, it behooves the investigator to observe safety precautions. The necessity of using gloves, safety shield and glasses, and equipment with proper controls does not need further amplification. If, in the course of a test, container perforations or signs of advanced corrosion are found, or if the product, dispensers and/or valves other-

wise become unmerchantable, the entire lot of samples should be destroyed. Besides wasting time and space, to continue such dispensers under test is to run the risk of serious accident.

### Typical Pack

The above can best be illustrated by presenting in table form (Table I) a typical aerosol insecticide storage test made to compare in a given container the shelf-lives of a new formulation and a standard formulation. It is assumed that the pre-test information has been accumulated, and containers or valves with obvious defects have been eliminated.

### Other Test Procedures

There are several other procedures that should be considered in conjunction with an aerosol testing program.

In evaluating a valve for a given formula it may be desirable to subject the containers to a continuous discharge test whereby the containers are emptied in a single burst or a series of long bursts. Such a procedure is very rapid and may give valuable clues on the suitability of the valve gasket material for the product. If indications of weakening, disintegration or undue swelling of the valve gaskets are found by means of this test, particular attention should be directed to the results of the live storage test.

Before commercial packaging of a new product or the use of a new container or valve is approved, certain in-

formation outside the scope of the laboratory test should be obtained. Filled containers should be subjected to normal handling, cartoning and shipping operations to determine the suitability of protective devices and the resistance of containers and valves to shock. Dispensers should be shipped to and stored in warehouses having the extremes in temperature that could be encountered in distributing and marketing the product. After the predetermined storage period in the various locations, the containers should be returned to the laboratory for complete examination.

Once commercial packaging of a product is initiated, a program may be inaugurated whereby defective or complaint dispensers encountered in the field are returned to the laboratory. By this means a continuous check on quality is maintained and it may enable the packer to be forewarned of difficulty before it becomes serious so that corrective measures may be taken.

### Summary

To summarize, the three major prerequisites for an adequate storage test are: (1) the providing of an adequate number of samples, (2) a well planned examination schedule and procedure, and (3) competent personnel to perform the tests. If the basic rules outlined above are adhered to, much valuable information, not obtainable by other means, will result, thus rendering the storage test an indispensable adjunct to the aerosol insecticide testing program.

TABLE I

	"Live" Storage	"Dead" Storage
Product, container, valve variables	2 (product)	2 (product)
Storage temperatures	R.T., 98°F.	R.T., 98°F., 30°F.
Storage positions	Upright & Inverted	Upright & Inverted
No. of filled cans per formula	24 (half inverted at each temperature)	144 (half inverted at each temperature)
Total No. of filled cans	48 (half inverted)	288
Duration of test	Until completed	2 years
Examination schedule	Weekly	1,3,6,12,18,24 months
No. of containers examined each examination	48 cans	24 cans (2 per product per temperature per position), all remaining dispensers examined after 24 months storage. All dispensers weighed.
Examination procedure	1. Wt. loss 2. Pressure (see above) 3. Discharge rate (10 sec.) 4. (Particle size) 5. Valve and container inspection at final examination or when failure occurs.	1. Wt. loss 2. Pressure 3. Discharge rate (10 sec.) 4. Valve examination 5. Container examination 6. Product examination

# Aerosol Test Method for Flying Insects

Official Method of the Chemical Specialties Manufacturers Association\* for Assaying Aerosols for Flying Insects

## I. INTRODUCTION

Early in the developmental period of liquefied gas aerosols starting in 1942 and especially following their appearance on the civilian market on a large scale in 1946, the need for a common method of biologically assaying aerosols became apparent. The literature records several testing techniques (among them 1, 2, 3, 4, and 5) employed by various investigators at that time, but the necessary cooperative tests leading to the development of an official method were not initiated until 1947. The first series of cooperative aerosol tests among industrial and federal laboratories was organized and conducted in 1947 under the direction of the NAIDM (now CSMA) Aerosol Committee (6). These tests employed a standard formulation in a standard dispenser at three dosage levels by the method in current usage in the cooperator's laboratory. Employing the results of the first cooperative tests as a basis, a second series of cooperative tests was designed and conducted under the direction of the NAIDM's Insecticide Scientific Committee. In this second series of tests made during the period May to October, 1948, four conventional low pressure aerosol formulations, each packaged in a standard dispenser, were tested by nine cooperating laboratories. In these tests (7), the use of free flying flies, a standard dosage and a standard testing technique were employed. A third series of cooperative tests were conducted by ten participating laboratories. These tests (8) made use of three coded formulations containing .2%, .4%, and .8% pyrethrins. (See minutes). The method here presented is based on the outcome of the first, second, and third series of cooperative tests and, in so far as practical, follows the Official Peet-Grady (9) Test Procedure (both large and small group). This technique for testing aerosols should be regarded as a practical test method designed for the comparison of formulations in the dispensers in which they will be employed by the consumer. It is restricted at present to the use against house flies, although it is felt that with modifications in dosage the general procedure would be satisfactory for other flying insects.

## II. APPARATUS.

### A. Reference Insecticide.

The reference insecticide shall be the Official Test Aerosol (OTA) prepared by the CSMA, Inc. The OTA

must be dispensed from the container in which it is supplied with particular care being taken that the OTA dispenser employed meets the specifications designated on its label.

### B. Dispenser for Experimental Aerosol.

No restriction is made on the dispenser employed in connection with the experimental aerosol formulation. However, it should be noted that the test results apply only to the experimental formulation as dispensed from the particular unit employed. In reporting results, the dispenser used with the experimental aerosol shall be specified.

### C. Test Insect.

The test insect shall be the house fly (*Musca domestica*, L.) reared from a strain mixed under the supervision of the CSMA. Healthy test groups having an average age of four days shall be used and individual flies in the test groups shall be not less than three nor more than six days old at the time of testing. The strain shall be of such susceptibility that the Official Test Insecticide (OTI) will cause a 24-hour mortality of 30 to 55 per cent and with approximately 95 per cent of the flies paralyzed at ten minutes following spray application by the Peet-Grady method.

### D. Fly Cages.

Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and have at least two sides and the top screened. It is suggested that the base be square in shape to provide maximum floor space. The floor of the cage is preferably detachable to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and 16 mesh wire screening; they are fitted with a sleeve opening, rubber membrane, or a door.

### E. Rearing Room.

This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of  $82 \pm 2$  degrees Fahrenheit and relative humidity of  $50 \pm 5$  per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

### F. Testing Room.

This room shall be of any convenient size, capable of holding the aerosol test chamber (Peet-Grady Chamber or larger chamber) and permitting

adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees F. It is suggested that the relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

### G. Aerosol Test Chamber.

The test chamber shall be a Peet-Grady Chamber as specified in the Peet-Grady Method, or a larger chamber meeting the general specifications of the Peet-Grady Chamber. In the case of larger chambers, it is recommended that the dimensions be such as to approximate a normal room.

### H. Exhaust Fan.

An exhaust fan moving not less than 1000 cubic feet of air per minute through the Peet-Grady chamber, or a fan of proportionately larger capacity for testing chambers larger than the Peet-Grady Chamber shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

### I. Insecticide Paper.

Unsize, nonglazed, absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. No special weight is specified although 60 to 80-lb. gray bogus paper has been found excellent. In certain laboratories testing chamber ceilings and walls have been covered with cardboard, kraft paper or other material suitably arranged for easy renewal to reduce chamber cleaning difficulties.

### J. Apparatus for Picking Up Flies.

Any convenient means of picking up the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and shall be cleaned after each test with the same materials used in cleaning the chamber.

In laboratories in which it is felt desirable to capture unparalyzed flies at the end of the test exposure period, suitable means of capturing the flies without injury in a clean apparatus shall be employed.

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.



### III. PROCEDURE.

#### A. Rearing and Handling Flies.

In this procedure, eggs are transferred to medium suitable for the development of larvae. The pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing.

(a) *Larval medium* The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry alfalfa-bran mixture (\*1) with approximately 750 ml. of an aqueous suspension containing 15 gm. moist cake yeast (2) and 10 ml. Diamalt (\*3).

Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need to be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

(b) *Eggs:* Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition sites in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash the eggs in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 ml. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 ml. tap water to measure and to scatter the eggs in a ½ inch pit located in the center of the jar of larval media. Cover the eggs with a loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 inch separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions, more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

(c) *Pupae:* Mature larvae migrate to the top portion of the medium and normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of the medium containing pupae is loosened, poured into a shallow tray, and air dried at room temperature. An electric fan

may be used to hasten drying. Pupae are separated from the dry medium by sprinkling the pupae-media mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Under normal conditions, at least 95 per cent of flies will emerge from the pupae.

The separated pupae are thoroughly mixed and weighed in groups as test units and each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cubic inch of space per pupa. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. If the large group procedure is used the test unit consists of approximately 500 pupae.

(d) *Adult Flies:* Each cage is supplied daily with a dish containing at least 15 ml. for each 100 flies of a solution consisting of 5% spray dried, non-fat milk with solids (roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food.) and 2% granulated sugar thoroughly dispersed in water; this shall be so prepared as to prevent the flies from drowning. A 40 per cent formalin solution at the rate of 1/1500 delays souring of milk for several hours. Satisfactory food must be available to the flies at all times. The series of test units is kept until the second day of oviposition (usually the 14th day after the culture was prepared) when they are ready for testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

#### B. Testing Flies.

Before a fly aerosol test is started, the aerosol test chamber must be clean and have clean paper on the floor, all ports and openings must be closed, and the temperature must be  $82 \pm 2^\circ\text{F}$ ., and all windows must be equally shaded. In chambers where walls and ceilings are covered with paper or other material, contamination, if present, must be at sufficiently low levels so as not to influence test results. Chambers are considered to be contaminated and unsatisfactory for test use when test flies, held in them for a 12 to 16 hour period with food but without insecticide treatment, show mortalities in excess of 10%, or when over 10% of the flies are paralyzed within 30 minutes after liberation. It is recommended that laboratories make a standard practice of taking contamination observations, employing a normal fly test group, following each day's testing. In both the large and small group procedures, only flies which are capable of flying shall be liberated into the aerosol test chamber. In the small group method, a sample of  $100 \pm 5$  flies is used in each test; but in the large group procedure, all flies in one cage are used in a single test. Samples may be taken by liberating the flies directly into the

chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. Samples may be taken also by discarding the first 100 flies and then counting 50 flies into each of a series of small cages. One hundred flies are counted into the last cage and, working backward, 50 flies are added to each. Flies remaining in the stock cage are discarded. The order of spray treatments must be randomized.

After liberating the flies in the chamber, and with the bomb at  $82 \pm 2^\circ\text{F}$ ., a total of  $3.0 \pm 0.5$  grams of aerosol mixture per 1000 cubic feet shall be applied in a continuous flow. In Peet-Grady Chambers, this is  $0.648 \pm 0.108$  grams. The dispenser nozzle may be oscillated slowly to effect uniform distribution of the aerosol mist within the test chamber. The mist shall not be directed onto chamber wall and ceiling surfaces. The test dispenser shall be weighed before and after the liberation of the aerosol mixture and the actual weight of material introduced shall be recorded. The chamber is closed at a constant temperature in the range of  $82 \pm 2^\circ\text{F}$ . for 15 minutes from the time the aerosol mist is introduced.

Counts shall be made as to the number of flies "down" (paralyzed) at 5 and 10 minutes following insecticide application. These counts are especially important because with conventional formulations practically all flies "down" at 15 minutes fail to recover during the 24-hour observation period. At the end of 15 minutes the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The "down" flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph d. These flies may be counted when they are picked up or later, depending upon which time is more convenient. During the subsequent 24-hour recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than ¼ inch above the floor of the cage and the flies can not drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution is also satisfactory.

The "up" (unparalyzed) flies in the chamber at the end of the 15-minute exposure period must be counted and either discarded or captured.

After a test is completed all toxic residues must be removed from the chamber or, if allowed to remain, must be at sufficiently low levels so as not to affect test results. Where chamber surfaces permit, wiping with a clean cloth saturated with alcohol containing 10% acetone will remove a number of toxic residues.

#### C. Assembling the Data.

The number of "up" flies must be counted and recorded at the end of  
(Turn to Page 266)

\*1 Mixed quarterly according to CSMA specifications by the Balford Purina Co., St. Louis, Mo., on the basis of orders received by the first of January, April, July and October, in 50 lb. bags. Terms—pay on receipt of invoice.

\*2 5 gms. dry yeast may be used.

\*3 Standard Brands Inc., products. These can be obtained from local distributors in most cases.



# Cockroach Spray Test Method

Official Method of the Chemical Specialties Manufacturers Association  
For Evaluating Cockroach Sprays

THE National Association of Insecticide & Disinfectant Manufacturers\* sponsored a fellowship at the Ohio State University from 1937 to 1942 for the study of testing methods suitable for evaluating liquid household insecticides against crawling insects. This project was directed by Prof. F. L. Campbell and employed as investigators at various times were E. N. Woodbury, C. S. Barnhart, E. H. Glass, and J. M. Hutsel. Results of these studies have been summarized in various published articles<sup>1, 2, 3</sup>, and much valuable information was obtained on both rearing and test methods. In spite of the fact that a number of test methods were devised and employed on both bedbugs and cockroaches, none of the methods received widespread official recognition. In 1943 Henderson reported on a liquid cockroach spray testing method being employed by the Production and Marketing Administration of the U. S. Department of Agriculture. From 1943 to 1946 crawling insect test method studies were conducted with CSMA (then NAIDM) support by F. O. Hazard, Wilmington College, Wilmington, Ohio, with special emphasis on the study of the Henderson method. Both liquid and powder methods for cockroach testing have been published by Hazard<sup>5, 6</sup> and L. J. Bottimer<sup>7</sup> on the current method used by the Insecticide Division Livestock Branch, Production and Marketing Administration, United States Department of Agriculture, for the testing of liquid cockroach sprays.

The method here described is a composite of the Bottimer and Hazard method with certain modifications developed through cooperative tests between various laboratories of the CSMA (then NAIDM), and is thought to offer a satisfactory means of determining the relative efficiency of contact insecticides in oils as cockroach sprays. As a biological test it is subject to variations that accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is run in conjunction with the Official Test Insecticide, which is designated as the basis of comparison.

\*Known as the Chemical Specialties Manufacturers Association since 1950.

## II. APPARATUS

**A—Reference Insecticide.** The reference insecticide shall be the current Official Test Insecticide (100 mg. pyrethrins/100 ml. de-odorized insecticide base oil) prepared by the Chemical Specialties Manufacturers Association, Inc. every two years. The OTI must not be diluted or changed in any manner.

**B—Test Insect.** The test insects shall be healthy, normal undeformed adult males of the German cockroach *Blattella germanica* (Linn.). Recently emerged adult males, e.g., whose pigmentation is not dark, shall not be used for testing purposes. It is recommended that the adult stage shall have been attained at least three days prior to testing.

**C—Rearing Room.** This room may be of any convenient size, constructed so as to be free from strong drafts and maintained at a temperature of 75 to 85°F. and a relative humidity of 30 to 50 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odor.

**D—Testing Room.** This room may be of any convenient size permitting adequate space for the operator to handle the test efficiently. While tests are being conducted this room shall be maintained at a temperature of 78 to 82°F. It is suggested that relative humidity be held between 30 and 50 per cent.

**E—Spray Chamber.** The spray chamber shall be a box-like structure of solid material measuring 18 inches wide, 18 inches long and 25 to 30 inches in height. The floor of the chamber shall be covered with ½ inch mesh wire hardware cloth. Suitable guides shall be fastened to the chamber floor to permit the centering of the treatment container directly beneath the nozzle of the spray gun. The top of the chamber shall be open and fitted with suitable braces and mounting for the spray atomizer. The front wall of the chamber may be in the form of a sliding door permitting convenient access to the interior of the chamber. The chamber shall rest on a stand placing it at the proper height for convenient operation of the test.

**F—Atomizer.** The atomizer to be employed is the DeVilbiss Special No. 5004, which is the same atomizer specified for the Peet-Grady Test. This atom-

izer shall be operated with air free of oil, dust particles, or condensed moisture, and maintained at a constant pressure of 6.0 plus or minus 0.5 lbs. per sq. in. The atomizer when operated at a pressure of 12.5 plus or minus 0.5 lbs. per sq. in. shall deliver 12 ml. of OTI in 24 seconds (tolerance plus or minus 1 second) and this should be checked frequently. The atomizer shall be firmly mounted in a manner to permit adjustment and shall be arranged with the barrel in a vertical position and centered with the nozzle tip 28 inches above the bottom of the treatment container which rests on the chamber floor. The intake tube of the atomizer shall be bent at a right angle, adjusted with the open end pointing toward the floor and of sufficient length to permit the spray vials to be held in place without interfering with the spray cone.

**G—Treatment Container.** The treatment container shall be a screen bottomed container 3½ inches in diameter with 3 inch side walls. Sixteen mesh wire screen shall be soldered in place to form the bottom of the container in such a manner that the entire bottom is completely open. Ordinary tin cups of the proper dimensions with handles removed and the solid bottoms replaced by wire screening have been found useful as test containers.

**H—Recovery Dishes.** Glass crystallizing dishes measuring 125 millimeters in diameter and 65 millimeters high shall be employed as recovery cages. The bottoms of the recovery dishes shall not be covered with filter paper or other material. Sixteen mesh wire screen covers may be employed as recovery dish covers during the 48-hour holding period following spray application in order to prevent the entry of wild cockroaches.

## III. PROCEDURE

**A—Rearing of Test Insects.** Any suitable method permitting the production of large numbers of the test insect under controlled conditions of temperature and humidity as previously described may be employed. The rearing technique described by Woodbury and Barnhart<sup>2</sup>, which makes use of a brood chamber containing adult females from which large numbers of first instar nymphs may be collected at frequent intervals, has been successfully used in a number of laboratories. All molded food, dead females and empty egg cases

should be removed weekly. Wild cockroaches shall not be used and all test insects shall have been reared under uniform conditions.

**B—Food.** Until the time of testing, the cockroaches shall be provided at all times with food and water. The standard food shall be Dog Chow Checkers, manufactured by the Ralston Purina Co., St. Louis, Missouri, or equivalent.

**C—Test Procedure.** Adult male cockroaches shall be isolated in recovery dishes or other suitable containers from the cultures in groups of 20 by means of a suction device, by anesthetizing them with carbon dioxide gas or any other suitable method which does not injure them. In selecting the test insects every effort shall be made to obtain uniform test groups.

Air shall pass continuously through the atomizer at the prescribed pressure during the entire series of tests. Prior to application of test samples, the gun shall be thoroughly cleaned with a suitable solvent such as acetone and shall be primed with the spray solution to be applied. Spraying of individual test groups shall be effected by bringing an accurately measured amount of the test spray contained in a vial in contact with the atomizer intake tube.

Immediately before spray application the cockroaches shall be transferred to screen-bottomed treatment containers. These containers shall be free from all traces of insecticides and shall have the entire inner wall surface suitably oiled or greased to prevent the escape of the insects and to confine them to the container floor. The treatment container shall be centered on the spray chamber floor directly below the atomizer nozzle and the spray applied as described above. Prior to spray application the treatment container shall be agitated sufficiently to distribute the test insects uniformly over the container floor. The treatment container shall be removed from the spray chamber 30 seconds after the start of spray application. The test insect shall be immediately transferred from the treatment container to the recovery dish. Treated cockroaches shall be held under rearing room conditions throughout the 48 hour observation period and shall receive neither food nor water.

In evaluating a test sample a minimum of 10 individual test groups shall be run for the test spray in conjunction with 10 test groups receiving the OTI. An equal number of replicates shall be made for members of any given test series on a given test day. The dosage employed shall be the same throughout a given series of tests and of such magnitude as to result in an average of 70 per cent to 90 per cent of the insects dead and moribund at 48 hours with the OTI. Cooperative tests among CSMA laboratories have shown the required dosage to be 0.5 to 0.9 ml.

**D—Assembly and Evaluation of Data.** Evaluation of test samples shall

be made on the basis of observations taken 48 hours after spray application, at which time the percentage of test insects normal, moribund, and dead shall be determined. Any insect showing signs of life but incapable of locomotion shall be considered as moribund. Similar records taken at 24 hours or at intervals longer than 48 hours may be of interest in critical studies. It is recommended that if the test insects are to be held under observation longer than 48 hours they be furnished food and water at the end of the initial 48 hour observation period. Insects that withstand insecticide treatments shall be destroyed and in no case returned to the stock cultures or employed in further tests. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches they shall be tested by the above method as recommended by the manufacturer. For example, if a manufacturer claims his product to be three times as effective as the standard (OTI), the spray shall be diluted at the rate of one part of the spray with two parts deodorized insecticide base oil by volume prior to testing. The basis of comparison shall be the average percentage dead and moribund of the test sample as compared with that of the OTI. In reporting the test results the test sample shall be reported as "meeting the standard" if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI employed in conjunction with it. In no case shall actual numerical values be reported officially or any letter grade designations be assigned to the test samples as a measurement of their effectiveness against cockroaches. The accompanying table records the results of a typical series.

#### IV. CONDITIONS FOR OFFICIAL EVALUATION

**A**—The test shall be conducted in accordance with the procedure previously described.

**B**—Twenty test groups of insects, numbering 20 cockroaches each (10 test sample, 10 OTI) shall be employed in making official evaluation.

**C**—The dosage shall be constant throughout a given series of tests and of such magnitude as to give an average of from 70 to 90 per cent of the OTI treated cockroaches dead and moribund 48 hours after spray application.

**D**—The toxicity of the unknown sample shall be reported as meeting the standard if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI run in conjunction with it. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches, they shall be tested as recommended by the manufacturer. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of their toxicity to cockroaches.

#### REFERENCES

- (1) Woodbury, E. N., 1938 — Test Methods on Roaches—Soap and Sanitary Chemicals, Vol. 14, No. 8, pp. 86, 87, 88, 89, 90, 107, 109.
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- (3) Campbell, F. L.; Barnhart, C. S. and Hutzel, J. M., 1941—Tests on Crawling Insects—Soap and Sanitary Chemicals, Vol. 17, No. 7 pp. 105, 106, 107, 109, 111, 113, 115; Vol. 17, No. 8, pp. 105, 107, 109, 111, 113, 115, 121.
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- (5) Hazard, F. O., 1943—Liquid and Powdered Methods for Roach Testing—Soap and Sanitary Chemicals, Vol. 21, No. 6, pp. 126, 127.
- (6) Hazard, F. O., 1945—Modifications of the Liquid Roach Method—Soap and Sanitary Chemicals, Vol. 21, No. 12, pp. 159, 167.
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#### EXAMPLE OF TEST DATA

0.7 ml. Dosage by CSMA Roach Test Method

Per Cent Dead and Moribund 48 Hours					
Test	Date	OTI	Spray A	Spray B	Spray C
1	5/13/46	90	85	100	100
2	5/13/46	85	75	45	90
3	5/13/46	30	50	55	100
4	5/13/46	65	70	40	100
5	5/13/46	100	85	65	100
6	5/13/46	75	75	85	95
7	5/16/46	80	85	35	100
8	5/16/46	65	70	65	100
9	5/16/46	95	90	30	95
10	5/16/46	80	45	60	100
Average		76.5	73.0	58.0	98.0

Reported as follows: Spray A—Meets Standard; Spray B—Does not meet Standard; Spray C—Meets Standard.

# Cockroach Aerosol Test Method

Tentative Method of the Chemical Specialties Manufacturers Association\* for Evaluating Aerosol Cock Roach Insecticides

## I. Introduction

STARTING in 1942 extensive studies were made by various CSMA and Federal laboratories to develop a standard test method for evaluating aerosol insecticides against flying insects. This work led to the adoption of the CSMA Aerosol Test Method for Flying Insects on October 12, 1952 (1), following the use of essentially the same method on a tentative basis starting in 1949 (2). During the same period a number of laboratories developed methods for evaluating aerosol insecticides against cockroaches. Descriptions of several of the methods appear in the literature (3,4,5), while other techniques were reported at meetings of the Insecticide Scientific Committee.

Early efforts of the Committee to develop a standard cockroach aerosol method centered around the use of space treatments in Peet-Grady or larger areol chambers with the insects exposed in suitable open cages. Following a co-operative test of a space spray method in 1952 and 1953, the Committee decided to use a direct spray treatment rather than a space treatment. It was also decided to use large nymphs of the German cockroach as the test insect and to try to adapt the procedure to the use of the same spray chamber specified for the Official Cockroach Spray Method (6). During 1954 a direct spray method was developed and studied by several CSMA and Federal laboratories. In a cooperative series of tests (early 1955), using coded dispensers with three difference formulas (2.0% DDT plus 0.2%, 0.4% and 0.8% pyrethrins), all five laboratories were able to differentiate between the three formulas. A decision was then made by the Committee in May, 1955, to prepare the method in official form so that it might be considered for adoption on a tentative basis.

Reports of the Committee's studies appear in the minutes of the Insecticide Scientific Committee and the Committee reports in the CSMA PROCEEDINGS (7,8,9,10).

In this method it should be understood that the term "aerosol" applies to pressurized formulations containing 20 per cent by weight or less volatile ingredients (insecticides, base oils, solvents, etc.) and 80 per cent or more propellant liquefied gases (trichloromonofluoromethane, dichlorodifluoromethane, methyl chloride, etc.).

Whether the method can be satisfactorily applied to formulations containing greater than 20 per cent low volatile ingredients will depend on additional study and cooperative tests.

The method here described is thought to offer a satisfactory means of determining the relative efficiency of aerosol formulations when applied as direct sprays to cockroaches. It is not designed to measure residual action. As a biological test it is subject to the variations that accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is run in conjunction with the Official Test Aerosol, which is designated as the basis of comparison. The format of the method follows that of the Official Cockroach Spray Method.

## II. Apparatus

A. *Reference Insecticide.* The reference insecticide shall be the Official Test Aerosol (OTA) prepared by the CSMA, Inc. The OTA must be dispensed from the container in which it is supplied with particular care being taken that the OTA dispenser employed meets the specifications designated on its label.

B. *Dispenser for Experimental Aerosol.* No restriction is made on the dispenser employed in connection with the experimental aerosol formulation. However, it should be noted that the test results apply only to the experimental formulation as dispensed from the particular unit employed. In reporting results, the dispenser used with the experimental aerosol shall be specified.

C. *Test Insect.* The test insects shall be healthy, normal, undeformed last nymphal instars of the German cockroach, *Blattella germanica* (Linn.). Recently emerged last nymphal instars, e.g., those whose pigmentation is not dark, shall not be used for testing purposes. It is recommended that the last nymphal instar stage shall have been attained at least three days prior to testing.

D. *Rearing Room.* This room may be of any convenient size, constructed so as to be free from strong drafts and maintained at a temperature of 75 to 85°F. and a relative humidity of 30 to 50 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of

insecticide coming in contact with the test insects. Ventilation should be provided to reduce odor.

E. *Testing Room.* This room may be of any convenient size permitting adequate space for the operator to handle the test efficiently. While tests are being conducted this room shall be maintained at a temperature of 78 to 82°F. It is suggested that relative humidity be held between 30 and 50 per cent.

F. *Spray Chamber.* The spray chamber shall be a box-like structure of solid material measuring 18 inches wide, 18 inches long, and 25 to 30 inches high. The open floor of the chamber shall be covered with 1/2-inch mesh wire hardware cloth. Suitable guides shall be fastened to the chamber floor to permit the centering of the treatment container in some definite position in respect to the nozzle of the OTA and test aerosol dispensers. The top of the chamber shall be open. The front wall of the chamber may be in the form of a sliding door permitting convenient access to the interior of the chamber. The chamber shall rest on a stand, placing it at the proper height for convenient operation of the test.

An adjustable hinged shelf shall be affixed to the outside of the center of the back upper edge of the spray chamber. Any suitable shelf (see Figure 1) which will permit the OTA and test aerosol dispensers to be held in a standard position can be used. One satisfactory shelf is made of aluminum sheet fitted with adjustable guides (in slots with wing nuts) which permit adjustment for dispensers of different sizes. An adjustable metal support rod (casement window adjuster) can be used to regulate the angle of the shelf. Markings can be made on the rod and plate to permit rapid adjustment for different dispensers.

The above-described spray chamber is identical with that specified for the CSMA Official Cockroach Spray Method, except that the braces and mounting for the spray atomizer have been removed and the hinged shelf for holding the aerosol dispenser has been added.

G. *Treatment Container.* The Treatment container shall be a screen-bottomed container 3 1/2 inches in diameter with 3-inch side walls. Sixteen mesh wire screen shall be soldered in place to form the bottom of the container in such a manner that the entire bottom is completely open. Ordinary

\*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.



tin cups of the proper dimensions with handles removed and the solid bottom replaced by wire screening have been found useful as test containers.

**H. Insecticide Paper.** Unsized, nonglazed, absorbent paper such as brown kraft or gray bogus paper shall be used beneath the treatment container during the application of the aerosol mist. No special weight is specified, although 60 to 80-pound gray bogus paper has been found excellent.

**I. Recovery Dishes.** Glass crystalizing dishes measuring 125 millimeters in diameter and 65 millimeters high shall be employed as recovery cages. The bottoms of the recovery dishes shall not be covered with filter paper or other materials. Sixteen mesh wire screen covers may be employed as recovery dish covers during the 48-hour holding period following spray application in order to prevent the entry of wild roaches.

### III. Procedure

**A. Rearing of Test Insects.** Any suitable method permitting the production of large numbers of the test insect under controlled conditions of temperature and humidity as previously described may be employed. The rearing technique described by Woodbury and Barnhart (11), which makes good use of a brood chamber containing adult females from which large numbers of first instar nymphs may be collected at frequent intervals, has been successfully used in a number of laboratories. All molded food, dead females, and empty egg cases should be removed weekly. Wild cockroaches shall not be used, and all test insects shall have been reared under uniform conditions.

**B. Food.** Up until the time of testing, cockroaches shall be provided at all times with food and water. The standard food shall be Dog Chow Checkers manufactured by the Ralston Purina Company, St. Louis, Missouri, or equivalent.

**C. Test Procedure.** Last instar nymphs shall be isolated in the recovery dishes or other suitable containers from the cultures in groups of 20 by means of a suction device, by anesthetizing them with carbon dioxide gas or any other suitable method which does not injure them. In selecting the test insects, every effort shall be made to obtain uniform test groups.

Prior to use, the OTA and test aerosol dispensers shall be calibrated at  $82 \pm 2^\circ\text{F}$ . to determine their spray rate in grams per second. The dispensers shall be aligned on the adjustable shelf and settings determined for the various dispensers to permit rapid handling. The dispensers shall be so aligned that the aerosol mist is directed into the open top of the treatment container which rests on the floor of the spray chamber. The treatment container shall be placed against the center of the front wall of the spray chamber. Suitable guides on the chamber floor or front wall of the chamber will aid in placing the treatment container in a standard position. A line may be drawn on the chamber wall and on the dispenser to aid in

### EXAMPLE OF TEST DATA

Test	Date	OTA		Sample A		Sample B	
		Dosage (grs.)	% D&M 48 hrs.	Dosage (grs.)	% D&M 48 hrs.	Dosage (grs.)	% D&M 48 hrs.
1	2/15/55	3.1	90	3.3	75	3.2	35
2	2/15/55	3.2	80	3.8	80	3.1	40
3	2/15/55	3.2	35	2.0	65	2.9	20
4	2/22/55	3.3	50	3.2	75	3.2	35
5	2/22/55	2.7	55	3.3	75	3.1	50
6	2/22/55	3.0	80	2.9	60	2.8	35
7	2/22/55	3.0	60	3.1	65	3.3	35
8	2/22/55	2.9	50	3.0	80	2.9	25
9	2/22/55	2.9	60	3.1	75	2.9	35
10	2/22/55	3.3	35	3.0	70	3.6	50
Average		3.06	59.5	3.07	72.0	3.10	36.0

Reported as follows: Sample A—Meets Standard. Sample B—Does not meet Standard.

aligning the nozzle with the center of the top of the treatment container. The treatment container shall rest on a 5 x 5 inch square of insecticide paper. Except for the 5 x 5 inch square of paper, the chamber floor (½ inch mesh wire hardware cloth) shall be open. The paper shall be changed after each spray application.

Immediately before spray application the cockroaches shall be transferred to the screen-bottomed treatment containers. These containers shall be free from all traces of insecticides and shall have the entire inner wall surface suitably oiled or greased to prevent the escape of the cockroaches and to confine them to the container floor. Prior to spray application the treatment container shall be agitated sufficiently to distribute the test insects uniformly over the container floor. The treatment container shall be removed from the spray chamber 30 seconds after the start of spray application. The test insects shall be immediately transferred from the treatment container to the recovery dish. The treated cockroaches shall be held under rearing room conditions through

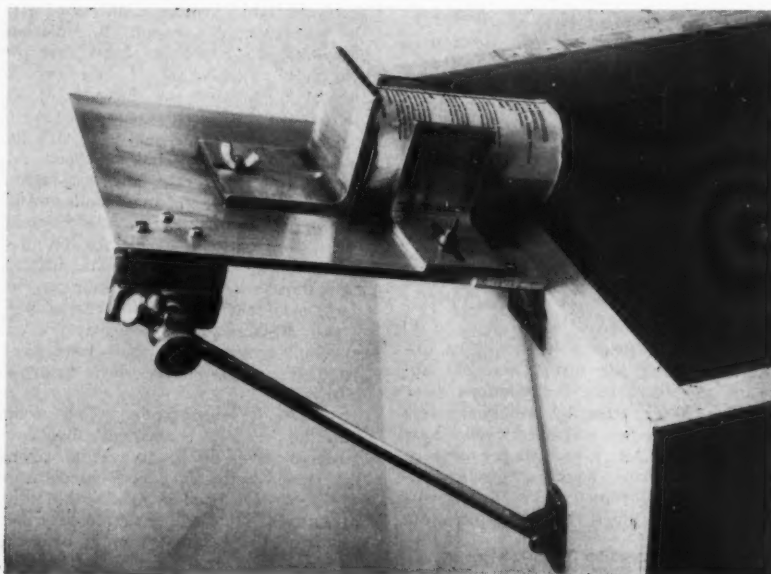
the 48-hour observation period and shall receive neither food nor water.

In evaluating a test sample, a minimum of 10 individual test groups shall be run for the test dispenser in conjunction with 10 test groups receiving OTA. An equal number of replicates shall be made for members of any given test series on a given test day. The average dosage employed shall be approximately the same throughout a given series of tests and of such magnitude as to result in an average of 50 per cent to 75 per cent of the insects dead and moribund at 48 hours with the OTA. Average dosages shall be considered the same if they agree within 0.2 grams. Cooperative tests among CSMA laboratories have shown the required dosage to be 2.0 to 4.0 grams. Test dispensers shall be weighed before and after the spraying of each test group of insects, and the weight of material used shall be recorded.

**D. Assembly and Evaluation of Data.** Evaluation of test dispensers shall be made on the basis of observations taken 48 hours after spray application, at which time the percentage of test insects normal, moribund, and dead shall

(Turn to Page 255)

Figure 1





# "Soap and Chemical Specialties Index"

Index to the articles appearing in monthly issues of "Soap and Chemical Specialties" for the years 1953, 1954, and 1955.

## A

Accounting for More Sales at Economics Laboratories	Jul., 1953	34
Actamer in Liquid Soaps	Jul., 1953	42
Advertising, Sanitary Supply	Dec., 1954	183
Aerosol Consumer Survey	Jan., 1954	149
Aerosol Market	Jan. 1953	133
Aerosol Patent Decision	May, 1955	191
Aerosol Products, Formulation of	Sep., 1953	142
Aerosol Regulations	Aug., 1955	155
Aerosol Safety Factors	May, 1955	172
Aerosol Shave Patent Suit	Nov., 1953	149
Aerosol Survey	Jan., 1955	147
Aerosols, Mailing	Mar., 1955	161
Aerosols, Method for Determining Water in Insecticidal	Feb., 1953	145
Aerosols, Powder	Jan., 1955	161
Aerosols, Propellents for Low Pressure Cosmetic	Feb., 1955	135
Aerosol Safety Record	Dec., 1954	191
Aerosols, Sidelights on Ten Years of	Dec., 1955	209
Airliners, Cleaners	Jan., 1955	44
Airplanes, Waxing Speeds Up	Oct., 1954	144
Allethrin Plant, New USI	Feb., 1953	148
Anionic Detergents	Apr., 1953	49
Amino Methyl Propanol in Self-Polishing Waxes	Feb., 1955	153
Anti-Freeze Marketing	Jun., 1954	173
Antiseptic, New, for Soap	Apr., 1954	44
Antistatic Specialties (Part I)	June, 1955	149
(Part II)	July, 1955	43
Anti-Trust Suit, Soap	Jan., 1953	38
Aromatics in Soap Industry, a Place for	Jan., 1954	38
Aspen Expands	Sep., 1953	141
Automotive Chemical Specialties (Part I)	Aug., 1954	133
(Part II)	Sept., 1954	157
Automobile Polishes	May, 1953	171

## B

Bacteriostat for Soap, New	Jan., 1953	34
Baird & McQuire of Holbrook	Aug., 1953	132
Bar Form Detergents	Oct., 1953	109
Bacteriocidal Activity of Fatty Acids	Aug., 1954	46
Bar Form Detergents	Sept., 1954	93
Bleaches, Powder Type	Apr., 1953	154
Bon Ami Holes Its Own	Nov., 1955	41
Buffalo Kay Chemical Co.	Mar., 1953	166
Buying Chemical Specialties	Dec., 1953	163
Buying Habit Survey, TGA	Sep., 1953	51

## C

Canneries, Insecticides for	Oct., 1953	143
Canada's "Mr. Terrific"	Oct., 1954	44
Candelilla Wax	Apr., 1954	163
Cleaners for an Ocean Liner	Mar., 1953	46
Cleaners for Caribe Hilton Hotel	Apr., 1953	46
Continuous Soap Making	Feb., 1953	107
CMC in Detergents, Laundrometric Determination of	Dec., 1954	48
Colgate Opens New Warehouse	Nov., 1954	38
Cost Accounting, Soap	Jun., 1954	89
Costs, Sanitary Supply	Sept., 1954	149
Couponing, Does Soap Pay?	Apr., 1954	48
CSMA, Brief History of	Dec., 1953	193
Curd Soap Making, White	Jan., 1955	81

Custodial Training: Jobber Sales Aid	Jul., 1954	124
Cyathrin, a New Synthetic Insecticide (Part I)	Feb., 1955	141
(Part II)	Mar., 1955	185

## D

Dairies, Soap Use in	Apr., 1953	53
Dairy Farms, Fly Control on	May, 1954	176
D&O Aerosol Laboratory, New	May, 1954	48
DCMX—New Chlorophenol	Mar., 1953	95
DCMX and G-11 in Soap	June, 1953	89
DDT Toxicity—Up to Date	Jun., 1954	167
Decontamination, Detergents for Radiological Purposes	Oct., 1953	42
Demonstrations Pay Off for Sterling	Oct., 1953	146
Deodorants, Room, Aerosol	July, 1955	141
Detergency Evaluation, Better	July, 1955	47
Detergency, Theory of	May, 1954	50
Detergent Congress, First	Dec., 1954	50
Detergent Performance, Rating	Dec., 1954	44
Detergent Performance, Rating (Part II)	Jan., 1955	39
Detergent-Sanitizers	Apr., 1954	53
Detergent Solubility	June, 1955	50
Detergents, Classifying	Jun., 1954	41
Detergents, Compounded	Mar., 1953	54
Detergents in Britain	Aug., 1955	37
Detergents, Liquid	May, 1954	46
Detergents, Non-Ionic	Apr., 1955	53
Deupree, R. R., 50 Years with Procter & Gamble	Nov., 1955	50
Diatomite	Feb., 1954	139
Dieldrin	Dec., 1954	171
Dishwasher Machine Detergents (Part I)	Jan., 1955	33
(Part II)	Feb., 1955	44
Dishwashing Detergents, Evaluation of	Jan., 1953	42
Disinfecting Surfaces, a Method for Testing Self	Aug., 1955	135
Dixie's Best Salesman, Catalog One of	Sept., 1953	46
Dry Mixing Equipment	Nov., 1955	63

## E

EDTA in Soaps and Detergents	Aug., 1953	81
Emulsion Stability, a Hydrometer Method for Measuring	May, 1954	99
Emulsion, Tips on Building Better	Dec., 1953	179
Entomology Centennial	Dec., 1953	159
Essential Oil Outlook	Jan., 1953	40
Essential Oils Today, European	Nov., 1953	47

## F

Fatty Acid Uses, Newer	Mar., 1954	50
Fatty Acids, Animal	Dec., 1954	54
Fatty Alcohol Plant, New Stepan, Puts Tallow to Work in	Sept., 1954	39
Fats and Oils, What's Ahead for	Oct., 1954	50
Filling Equipment, Dry	May, 1955	103
Filling Equipment, Liquid	Feb., 1955	85
Filling Unit, New Aerosol	Aug., 1953	149
Fire Extinguisher to Sanitary Supplies	Dec., 1954	152
Flakes, Improving Soap	Oct., 1955	73
Floating Soaps (Part I)	Sept., 1955	41
(Part II)	Oct., 1955	45
Floor Wax, Germicidal	Jan., 1955	133
Floor Waxes, Radioactive Method for Determining Wearing	Oct., 1955	169
Fly Control on Livestock (Part I)	June, 1955	142
(Part II)	Jul., 1955	151

Fly Repellents .....	Oct., 1955	181
Foam and Detergency Improvers .....	Jul., 1955	37
Formulas, Dialing Detergent .....	Nov., 1953	85
Foam Stabilization by Alkylolamines .....	June, 1953	45
Foaming Power, New Method of Determining .....	Apr., 1955	44
Formula Floor Products, Inc. ....	Sept., 1951	46
Franklin Institute, What it Takes to Clean .....	Aug., 1955	139
FTC Hearing on Floor Wax Trade Rules .....	Oct., 1953	165
Fumigants, Para and Naphtha as Closet .....	Aug., 1953	134
Furniture Polish, Silicone .....	Jul., 1955	137

## G

Generator, Simple Laboratory Foam .....	Oct., 1955	77
Germicide, New Soap .....	Jun., 1954	38
Germicidal Soaps .....	Feb., 1954	44
Germicidal Soaps, Evaluation of .....	Aug., 1954	42
Germicides for Soap .....	Sept., 1953	42
Givaudan Opens New Aerosol Laboratories .....	Nov., 1954	130
Glass Aerosol Compositions, Solubility of .....	May, 1954	168
Glass Aerosols .....	Dec., 1954	160
Glass Aerosols for Antiseptics .....	Oct., 1955	163
Glim, the Story of .....	Dec., 1955	47
Gluconic Acid in Cleaners .....	Jan., 1953	71
Glycerine .....	Jul., 1954	37
Glycerine Today .....	Feb., 1953	50
Glycerine, Changing Times for .....	Apr., 1955	54
Glycerine, What's Ahead for .....	Mar., 1954	48

## H

Hand Cleaners .....	June, 1953	87
Hand Dishwashing, Evaluating Liquid Detergents for .....	May, 1955	54
Housefly Control .....	July, 1953	113
Housefly Insecticides, New .....	Feb., 1954	133
Household Soap Sales .....	Apr., 1953	53

## I

Inhibitors, Acid Cleaner .....	Jun., 1954	161
Insect Control With EQ53 .....	Dec., 1955	199
Insecticidal Phosphorus Compounds .....	Nov., 1955	151
Insecticide Glossary .....	Jan., 1953	127
Instrumentation, Soap Plant .....	Sept., 1953	46
Iodine as a Germicide .....	Apr., 1955	139
Iodine Sanitizing Solutions .....	Dec., 1955	189
Ivory Soap's 75th Anniversary (Part I) .....	Jul., 1954	44
(Part II) .....	Aug., 1954	49
Insecticide Market .....	Oct., 1954	141

## J

Jobber Boosts Unit Sales .....	Nov., 1955	155
Jobber Sells Satisfaction .....	Aug., 1954	136
Jobber "Shows and Sells" .....	Sept., 1955	179
Jobber Wrings Sales from Telephone .....	Apr., 1954	167
Jobber's Sales, Leg Work Boosts .....	Mar., 1954	152
Jobber's Sales, Mailings Build .....	Jan., 1954	134
Jobbing South of the Border .....	Aug., 1953	52

## L

Lankenau Hospital, Cleaning .....	May, 1955	50
Laolin in Powdered Hand Soaps, Determination of .....	Nov., 1954	48
Lather, Improving Soap .....	May, 1953	95
Laundry Detergents, Sea-Water, Evaluation of .....	Jan., 1954	46
Lauryl Alcohol Sulfates .....	Aug., 1954	38
Lever Hammond Warehouse, New .....	Oct., 1954	38
Liability, Product, Soap and Detergent (Part I) .....	May, 1954	42
(Part II) .....	Jun., 1954	48
Louse Powder Synergists .....	Jul., 1954	121
Low Foaming Detergents, Techniques for Evaluating (Part I) .....	Aug., 1955	43
(Part II) .....	Sept., 1955	50

## M

Market, Insecticide .....	Oct., 1954	141
Market Research .....	Sept., 1954	42
Market Trends, Detergent .....	Mar., 1955	41
Marketing Chemical Specialties, How the Home Economist Can Aid in .....	Feb., 1954	134
Medicated Soaps .....	Aug., 1955	41
Mellocraft Toledo Plant .....	June, 1953	50
Mennen Opens New Plant .....	June, 1953	91

Metal Polishes, Modern .....	Mar., 1953	157
Methoxychlor and New TOTA Proposals .....	Dec., 1953	207
Mildew Control .....	Mar., 1953	150
Milking Machines, Bacterial Population of .....	Nov., 1953	132
Mill, New Soap .....	Nov., 1953	93
Mixing, Colloid Mill .....	Sept., 1955	73
Mixing Equipment, Liquid .....	Jul., 1955	65
Montan Wax, American .....	Feb., 1953	137
Montan Wax in Floor Waxes .....	Jan., 1953	121
Mothproofing Wool with DDT .....	Sept., 1954	141
Mothproofing Woolens .....	Aug., 1955	149

## N

New Product Introduction .....	Jan., 1953	126
Non-ionic Concentration, Maintaining .....	Dec., 1955	73
Non-ionic Detergents, Versatility .....	May, 1955	47
Nonionics—All-Surface Cleaners (Part I) .....	Feb., 1953	46
(Part II) .....	Mar., 1953	50
Nopol, Esters of .....	July, 1953	71

## O

Oakite Laboratory, New .....	Oct., 1954	43
Odor Problems, Solving .....	Mar., 1955	177
Odorants, Room .....	June, 1955	157
Optical Bleaches in Soap .....	Jan., 1954	85
Optical Brighteners in Detergents (Part I) .....	Nov., 1955	44
(Part II) .....	Dec., 1955	58
Outdoor Posters Sell Household Cleanser .....	July, 1953	40

## P

P&G Headquarters, New .....	Nov., 1954	46
Packages, Best Detergent .....	Apr., 1954	42
Packaging, Contract .....	Jun., 1955	55
Pail Plant Serves South, New .....	Mar., 1954	168
Paint Strippers, Non-Flammable (Part I) .....	Sept., 1955	166
(Part II) .....	Oct., 1955	175
Paints Removers .....	Feb., 1953	133
Patent, Essential Features of a Valid .....	Feb., 1954	38
Patent Law, Soaps Under the New U. S. ....	Apr., 1955	54
Penal Institution, Soap for .....	Oct., 1953	53
Perfumery, Soap and Detergent .....	July, 1954	34
Perfumes, Household Soap .....	Dec., 1953	93
Perfuming, Aerosol .....	July, 1954	139
Perfuming Aerosols .....	Oct., 1953	45
Perfuming Aerosols .....	Jan., 1955	39
Perfuming Detergents and Cleaners .....	Jul., 1955	41
Perfuming Insecticides .....	Dec., 1954	177
Perfuming Materials, Selecting .....	Apr., 1955	53
Perfuming of Toilet Soaps (Part I) .....	Feb., 1955	32
(Part II) .....	Mar., 1955	50
(Part III) .....	Apr., 1955	51
Perfuming Toilet Soap .....	Apr., 1953	95
Perfuming Shampoo Bases .....	Nov., 1955	49
Pesticide Laws, State .....	Jun., 1954	153
Petroleum Displacement, Detergents for (Part I) .....	Oct., 1955	41
(Part II) .....	Nov., 1955	53
PH and Titration Control .....	Sept., 1953	87
Philadelphia International Airport, Cleaning .....	Mar., 1955	154
Phenolic Disinfectants .....	Aug., 1953	129
Phosphates as Syndet Builders .....	Feb., 1954	87
Polystyrene Lattices in Self-Polishing Floor Waxes .....	Sept., 1954	145
Powdered Hand Soaps, What to Look for in .....	Oct., 1954	41
Powders, Soap and Detergent .....	Oct., 1954	93
Point-of-Sale Displays .....	Nov., 1953	36
Polishes, Silicone .....	Sept., 1955	163
Premiums .....	Nov., 1953	42
Pricing, Soap and Detergents .....	Jan., 1952	37
Private Brand Soaps .....	Oct., 1953	50
Product Research, the Why of .....	Aug., 1953	42
Pyrethrin I, Determination of .....	Jan., 1954	141
Pyrethrum Flower Toxicants .....	Aug., 1954	139
Pyrethrum Outlook .....	Mar., 1954	173

## Q

Quaternaries, Field Testing .....	July, 1953	114
Quaternary Ammonium Germicides, Effect of Hard Water on .....	May, 1955	207
Quats, Sanitizing Effect of .....	Jul., 1954	129

## R

Radioactive Tracers in Insecticide Research	
(Part I)	Sept., 1953 136
(Part II)	Oct., 1953 148
(Part III)	Nov., 1953 141
(Part IV)	Dec., 1953 167
Rail Shipment Damage, Cutting	Aug., 1955 65
Regulations, Disinfectant	Oct., 1953 155
Resins in Floor Waxes	Nov., 1955 163
Riddiford Bros., Chicago	May, 1953 48
River Plate Corp. Wax Refinery	Dec., 1955 176
Russia, Soap Making in Soviet	Dec., 1955 50

## S

Sales Contests Pay Off for F. W. Hoffman & Co.	July, 1953 116
Sales, How to Boost Soap	June, 1953 42
Sales, Increasing Jobber	Sept., 1955 187
Sales Trend, Soap	Mar., 1954 42
Sales Trends, Soap	Mar., 1955 44
Salesmen, Hiring	Feb., 1954 41
Salesmen, How We Pick Better	Mar., 1954 46
Sanitary Supplies, 40 Years of	Sept., 1953 131
Sanitary Supplies, Sells by Phone	Mar., 1955 171
Sanitary Supply, A Day in the Life of Firm's Head	Nov., 1953 130
Sanitary Supply, Are Prices Too Low?	Nov., 1953 127
Sanitary Supply Prices	Mar., 1954 163
Sanitary Supply Showroom on Wheels	Mar., 1953 148
Sanitary Supplies, Cost Survey Sells	Feb., 1954 129
Sanitary Supplies, Resort	Nov., 1954 141
Sanitizer-Detergents (Part I)	May, 1955 164
(Part II)	June, 1955 163
Sea-Water Laundry Detergents, Evaluation of	Nov., 1953 42
Self-Selection of Soaps	Sept., 1954 49
Selig Sells With Service	Dec., 1953 153
Shampoos, Clear Detergent	Jul., 1954 77
Shelf Life Standards	Apr., 1953 139
Shellac, Acid Numbers of	Jul., 1953 123
Shellac in Floor Preparations	May, 1953 154
Shellac in Floor Waxes	Oct., 1954 146
Shoe Cream Manufacture	Feb., 1954 85
Silicates, Soluble, pH of	Nov., 1954 85
Silver Dips	May, 1953 161
Skin, Detergents Effect on	Feb., 1953 93
Skin, Detergents Effect on	Nov., 1953 44
Skin, Soap and the	May, 1953 46
Soap Industry Progress, 40 Years of	Jan., 1954 34
Soaps and Synthetic Detergents, What's Ahead for	Jul., 1954 41
Sorption of Syndets by Fibres	Sept., 1953 89
Specialty Soap Manufacture	Oct., 1953 93
Specifications for Chemical Specialties, What?	Dec., 1954 203
Spray Deposits, Insecticide	Apr., 1954 141
Spray Drying of Detergents	Dec., 1954 101
Spray Tower Shut-Off System	Jul., 1954 73
Sprayers, Compression	Aug., 1953 143
Standards in the Soap Plant	May, 1953 53

Stanley, John T., Co., 90 Years Old	Dec., 1955 57
Stock Sprays	June, 1953 135
Strobane, Relative Toxicity	Mar., 1954 157
Strobane	June, 1953 157
Strobane, Toxicity of	July, 1953 129
Suds, Housewives' Views on	Nov., 1953 34
Sulfonates Production	Feb., 1953 91
Sulfoxide Aerosols for Roach Control	Oct., 1954 153
Surface Active Agents, Production of	July, 1953 85
Surfactant, Non-Detergent Uses	July, 1953 69
Surfactants, Evaluation of	Aug., 1953 48
Surfactants, New, ACS Topic	Oct., 1954 48
Surfactants, Toxicology of	Jun., 1954 51
Synthetic Detergents—Up-To-Date	
(Part I)	Jul., 1955 50
(Part II)	Aug., 1955 48
(Part III)	Sept., 1955 52
(Part IV)	Oct., 1955 48

## T

Tall Oil in Soap	May, 1953 42
Tall Oil, Soap From	Dec., 1953 99
Tallow for Animal Feed	Mar., 1954 54
Testing Disinfectants	Nov., 1954 132
Toilet Soap, White	Mar., 1955 97
Toxicity of Quaternaries	Feb., 1954 147
Toxicity of Soaps and Detergents	Apr., 1954 52
Toxicology of Disinfectants	Aug., 1954 149
Transparent Glycerine Soaps	Aug., 1954 85
Transparent Soaps (Part I)	June, 1955 39
(Part II)	Jul., 1955 43
Triethanolamine, Non-Yellowing of	Dec., 1952 97

## V

Vacuum, Drying Soap Under	Nov., 1954 42
Vacuum Soap Process	May, 1953 97
Van A-H Plant, Visit New	Jan., 1954 44
Vinyl Floors, Waxing	June, 1953 147

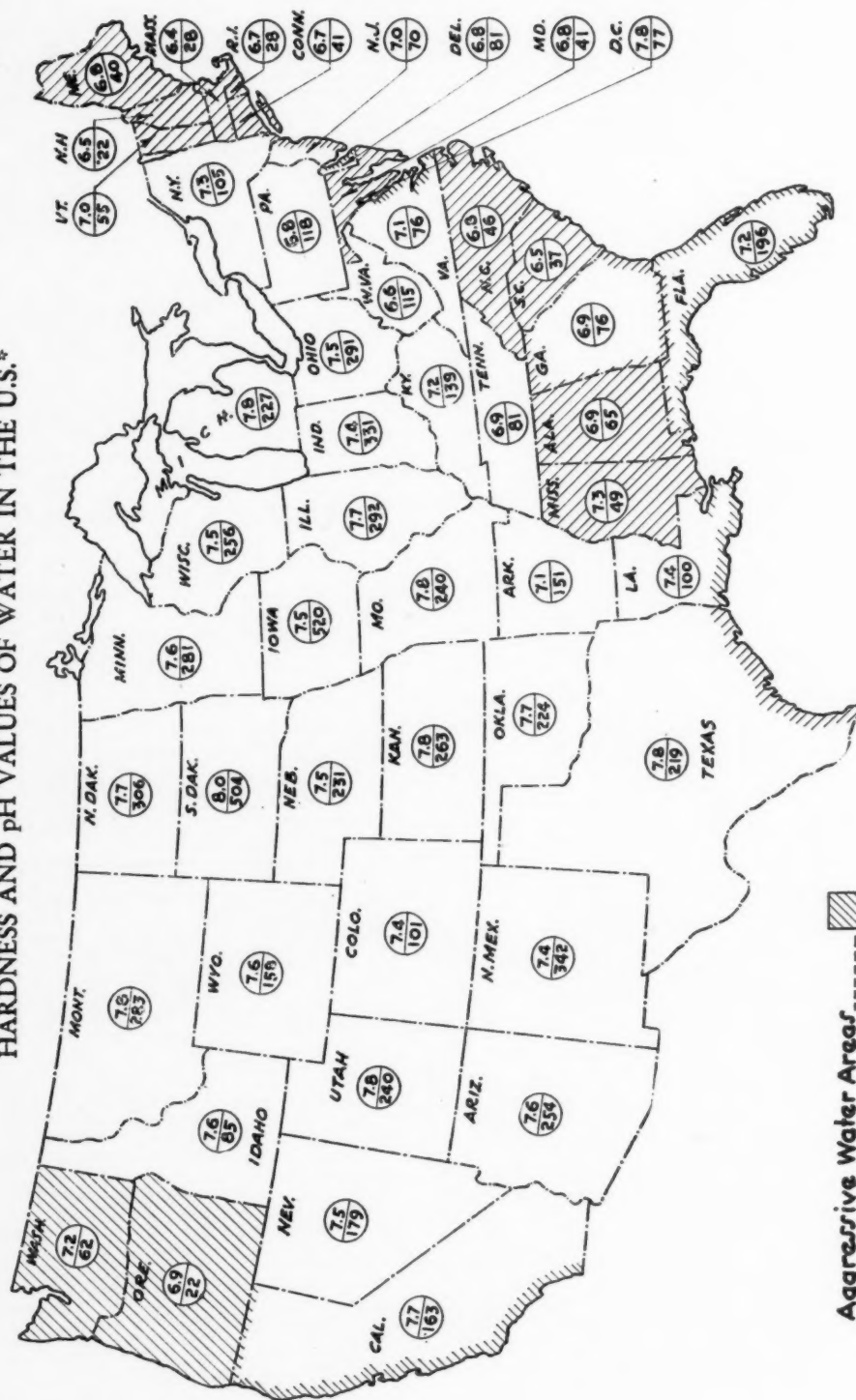
## W

Washer, Clothes, Soap in the Home	Feb., 1954 46
Wax Adulteration, Detecting	Dec., 1955 205
Wax Refinery, Modern	May, 1954 162
Wax Remover Evaluation	Aug., 1952 149
Wax Removing Floor Cleaners	Nov., 1954 127
Waxes, Fischer-Tropsch	Feb., 1955 130
Waxes, Purchasing, Refining and Testing	
Vegetable	Jan., 1955 147
Wildroot Shampoo, Home of	Mar., 1953 42
Weed Control, Industrial	May, 1954 160
Wool Scouring, for Soap	July, 1953 36
Wyandotte Research Center	June, 1953 49
Wax Remover Specification	Oct., 1953 161

## Z

Zep Manufacturing Co.	Nov., 1953 38
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# HARDNESS AND pH VALUES OF WATER IN THE U.S.\*



Aggressive Water Areas

pH Value

Hardness As CaCO<sub>3</sub>

pH Values:- Below 7 acid

7 neutral

Above 7 alkaline

Hardness:- Below 60 ppm. aggressive water

61-120 " soft

121-180 " hard

Above 180 " very hard

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## FEDERAL SPECIFICATIONS

(From Page 242)

this specification shall be equal or superior to the standard comparison cleaning compound prepared and tested under the same conditions, in ability to remove mineral oil and asphalt soils from metal surfaces.

The compound covered by this specification, when boiled for 40 hours, shall be equal or superior to the standard comparison formula, prepared and tested under the same conditions, in ability to remove soils from metal surfaces.

The cleaning compound, alkali-type, shall not attack aluminum. When tested in accordance with specifications, there shall be no loss in weight of aluminum test panels, nor any visible staining, discoloration, etching or pitting of the test specimens.

The pH value of a distilled water solution of the compound at a concentration of 7.5 percent (7.5 grams of compound in 100 ml. of solution) shall be not more than 12.1 when tested at 25° C.

The dust forming properties shall be such that the dust shall settle within a period of five seconds.

The surface tension of a 0.05 percent solution (0.05 grams of compound in 100 ml. of solution) of the compounds in distilled water at 25° C. shall be not more than 36 dynes per centimeter.

The average penetration shall be not less than 30.0.

The difference of the percentages of any ingredient of the compound (such as silicates, carbonates, or total phosphates) taken from different portions of a container shall not exceed 2 percent of the average percentage of that ingredient in the compound.

The compound shall be manufactured in accordance with the best commercial practice to produce a high quality material which is stable and not subject to change during storage in a sealed container.

### Insecticide, DDT (Solution, Residual Effect) O-I-531a

The insecticide solution covered by this specification is designed as an oil-base residual insecticide to provide continuing protection against flies, mosquitoes, bedbugs, and other flying and crawling insects, and shall be of one type and one grade.

The insecticide shall comprise the following ingredient materials in the specified proportions by weight:

	Per Cent
Dichlorodiphenyltri-chloroethane (DDT) .....	5 ± 0.1
Kerosene .....	80 ± 0.2
Auxiliary solvent .....	15 ± 0.2

DDT shall conform in all respects to grade B of Federal Specification. The finished spray shall contain 25 mg.

± 0.5 mg. of chlorine per grain of solution.

Kerosene shall contain no organic chlorine.

Auxiliary solvent shall contain no organic chlorine and shall consist principally of aromatic hydrocarbons. Auxiliary solvents shall not add an objectionable odor to the finished spray.

There shall be no residual stain when the auxiliary solvent is tested.

The finished insecticide shall show no sedimentation. Color shall not exceed Union Colorimeter color No. 2.0.

### Polish; Metal P-P-556a

Metal polish shall be of the following types:

Type I.—Powder.

Type II.—Liquid.

Type III.—Paste.

Metal polish on each type shall be of but one grade.

All types of metal polish shall have—(a) Good tarnish removing properties. (b) Good luster-producing properties.

Good protection of the polished surface against tarnishing influences, and shall be so constituted and prepared that, by reason of application and polishing, they—shall not scratch metals; shall not leave the metal discolored or caked with abrasive material; shall not be detrimental in any manner to metals; shall not show any unnecessary caking of type I or III polish in the containers. The abrasive material in liquid (type II) polish, shall show no caking in the container, which cannot be readily put into suspension by thoroughly shaking the containers.

The abrasive material shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Metal polish shall be free from acids, cyanide of potassium or other cyanides, grit, or other ingredients having detrimental effects on metals.

It shall clean quickly, leaving a bright polished surface, with a full luster for the material being polished.

The polished surface shall remain free from corrosion or discoloration for a period of at least 24 hours.

Polish, metal, furnished under this specification shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery specified in the contract or order.

The amount of volatile matter, at 105° to 107° C., in either type II or III polish, shall not exceed 70 per cent by weight, of the polish.

The flammability of the liquid contents of types II and III polishes shall be not less than 39° C.

### Rodenticide, Warfarin, Concentrates O-R-507a

Rodenticide covered by this specification is suitable for the control of commensal rats and mice. It shall be of the following classes: Class I.—Rodenticide,

warfarin 0.5 percent; Class II.—Rodenticide, warfarin 4.0 percent.

The rodenticide shall contain only the materials specified.

The finished rodenticide shall be a fine, free-flowing powder devoid of lumps. It shall be of such fineness that not less than 95 percent shall pass through a 100-mesh U. S. Standard screen (dry test).

The composition of the finished rodenticide shall conform to the requirements shown in the table.

### COMPOSITION: O-R-507a

Ingredient	Class I Percent	Class II Percent
Warfarin .....	0.50-0.55	4.0-4.4
Pigment .....	0.90-1.10	0.90-1.10
Cornstarch ....	Remainder	Remainder.

The active ingredient of rodenticide warfarin concentrates shall be technical grade 3-(alpha-acetonylbenzyl)-4-hydroxy coumarin, hereinafter referred to as warfarin. This technical product shall be a fine, white or creamy white powder, melting at 159°-163° C., and containing not less than 98 percent warfarin. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Rodenticide warfarin class I shall contain not less than 0.5 percent nor more than 0.55 percent warfarin, and rodenticide warfarin class II shall contain not less than 4.0 percent nor more than 4.4 percent warfarin.

The pigment shall be a Nile green color, adequate for its proposed end use, and approved by the U. S. Department of the Interior, Fish and Wildlife Service.

The cornstarch shall conform to the requirements of the Pharmacopoeia of the United States. Percentage starch content shall be determined.

The finished rodenticide powder shall not lose more than 11.0 percent of its weight when tested.

The toxicity and acceptability of the finished rodenticide powder shall be such that it yields a test score of not less than 80 when assayed as described.

The method employed in making the rodenticide powder shall be in accordance with best commercial practice. The product shall be clean, uniformly blended, and free of defects which may impair its utility.

### COCKROACH AEROSOL TEST METHOD

(From Page 252)

be determined. Any insect showing signs of life but incapable of locomotion shall be considered moribund. Similar records taken at 24 hours or at intervals longer than 48 hours may be of interest in critical studies. It is recommended that if the test insects are to be held under observation longer than 48 hours, they be furnished food and water at the end of the initial 48-hour observation

period. Insects that withstand insecticide treatments shall be destroyed and in no case returned to the stock cultures or employed in further tests.

The basis of comparison shall be the average percentage dead and moribund of the test sample as compared with that of the OTA. In reporting the test results the test sample shall be reported as "meeting the standard" if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 10 percentage points less than that of the OTA employed in conjunction with it. In no case shall actual numerical values be reported officially or any letter grade designation be assigned to the test samples as a measurement of their effectiveness against cockroaches. The accompanying table records the results of a typical series of tests.

#### IV. CONDITIONS FOR OFFICIAL EVALUATION

A. The test shall be conducted in accordance with the procedure previously described.

B. Twenty test groups of insects, numbering 20 cockroaches each (10 test sample, 10 OTA), shall be employed in making an official evaluation.

C. The average dosage shall be approximately constant throughout a given series of tests and of such magnitude as to give an average of from 50 to 75 per cent of the OTA treated cockroaches dead and moribund 48 hours after spray application.

D. The toxicity of the test sample shall be reported as meeting the standard if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 10 percentage points less than that of the OTA run in conjunction with it. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of their toxicity to cockroaches.

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#### AEROSOL TESTING METHOD FOR FLYING INSECTS

(From Page 248)

the 15-minute exposure period. The dead flies are counted  $24 \pm 1$  hours later, preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If the "down" flies were counted as they were collected, the sum of the "down" and the "up" flies yield the total flies in the test. If the "down" flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at  $170^{\circ}\text{F}$ . for a few minutes, after which they are counted. The sum of recovered and dead flies yields the "down" flies and this sum added to the "up" flies yields the total flies used in the test. The *Aerosol Test Knockdown Mortality* is the per cent dead of total flies. In the *Aerosol Test Knockdown Mortality* calculation, the "up" flies at the end of the 15-minute exposure period are considered to be alive at the end of the 24-hour observation period. The *Aerosol Test Knockdowns* are the per cent "down" of total flies at 5, 10 and 15 minutes.

In the preceding paragraph, it is assumed that the "up" flies at 15 minutes are counted and discarded, and not captured and held for a 24-hour mortality observation. If these flies are captured, the *Aerosol Test Mortality* calculation can be made, and this includes the 24-hour dead of the "up" flies. In such a procedure, the captured flies must be held in a separate recovery cage under conditions specified for the "down" flies, and the 24-hour mortality count must be taken in a similar manner. It is also necessary that the OTA, run in conjunction with the so-treated experimental samples, receive identical treatment. In reporting results, the above terminology must be rigidly adhered to in order to clearly designate whether the "up" flies were captured and held for observation or whether they were assumed to be alive at 24 hours.

The mortality and knockdown definitions are summarized in equation form as follows:

- (1) *Aerosol Test Knockdown Mortality* =  $\frac{\text{Dead "Down" Flies} \times 100}{\text{Total Flies}}$
- (2) *Aerosol Test Mortality* =  $\frac{(\text{Dead "Down" Flies}) + (\text{Dead "Up" Flies} \times 100)}{\text{Total Flies}}$
- (3) *Aerosol Test Knockdown, 5, 10 or 15 minutes* =  $\frac{\text{"Down" Flies} \times 100}{\text{Total Flies}}$

#### IV. CONDITIONS FOR OFFICIAL EVALUATION.

1. The tests shall be conducted in accordance with the procedure previously described.

2. At least two cultures of flies, meeting Peet-Grady specifications, shall be used in making an official evaluation.

3. Cages showing a combined mortality and crippling greater than eight per cent on the day of test shall not be used.

4. In the small group procedure, using approximately 100 flies per test, no more than three unknown samples may be tested in conjunction with one OTA in any one series. Ten tests are run on the OTA and on each of the unknowns in parallel; that is, test each spray the same number of times on any one day. The samples of a series must be randomized in the order of testing.

5. The large group procedure using approximately 500 flies per test shall be conducted in the same manner as outlined for the small group procedure with the exception that five, rather than ten, tests are required.

6. The *Aerosol Test Knockdown Mortality* and/or *Aerosol Test Mortality*, and *Aerosol Test Knockdown* (5, 10, and 15 minutes) of the unknown sample shall be reported as "meeting the standard" if its average mortality and knockdown is equal to or greater than that of the OTA run in conjunction with it. "Equal to" shall be interpreted as meaning that the results with the unknown do not differ by more than 5 percentage points from the results obtained with the OTA at 5, 10, and 15, minutes. If an unknown sample shows a mortality or knockdown less than the OTA but within the allowable 5 percentage point margin, the average dosage of the unknown must not exceed that of the OTA.

7. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of the mortality or knockdown.

8. The *Official Test Aerosol* (OTA) is restricted to use in the above described procedure and shall be used only as a reference insecticide in house fly aerosol testing.

#### References

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## THE PEET-GRADY METHOD

(From Page 244)

3. Cages showing a combined mortality and crippling greater than 8 per cent on the day of test shall not be used.
4. An unknown insecticide to be officially rated shall have a knockdown percentage equal to that of the OTI with a tolerance of minus 2.
5. The kill by the OTI shall fall between 30 and 55 per cent in all tests. The toxicity of an unknown spray shall be reported by a grade letter, obtained by subtracting the average kill by the OTI from the average kill by the unknown spray and comparing this result with the following figures:

Grade Letter	Kill Difference
AA	: +16 or greater
A	: +6 to +15
B	: +5 to -5

6. In the small group procedure no more than 2 unknown samples may be tested in conjunction with one OTI in any one series. Ten tests are run on the OTI and on each of the unknowns in parallel; that is, test each spray the same number of times on flies of the same culture and test all sprays the same number of times on any one day. The samples of a series must be randomized in the order of testing.

For example, number the samples and the OTI, and test them in the order 1, 2, 3; 2, 1, 3; 3, 2, 1, etc., until each has been tested ten times. After the mortality data are obtained, calculate the average kills and determine the difference between that of the unknowns and that of the OTI. In order for these differences to be valid, the standard error of the mean difference between the average OTI kill and the average unknown kill must be less than 3. If it is 3 or greater, the test results were too variable and to make the results valid, additional paired tests must be run to reduce the figure to a value less than 3. The example in Table I illustrates the arrangement of test data and calculations described in the preceding paragraphs. When two unknown samples and the OTI are tested in series, the first table should consist of differences between Sample No. 1 and the OTI, the second table should show differences between Sam-

ple 2 and the OTI. 1.14 is less than 3, thus indicating the test has been properly conducted. The letter n (in formula above) denotes the number of paired tests. This number is always 10 except when it is necessary to run additional tests to reduce the standard error of the mean difference to 3 or less.

The percentage kill of Sample 1 minus the percentage kill of OTI is +4; therefore, Sample 1 is a "B" grade insecticide.

7. In the Large Group procedure the evaluation is carried out as follows:

The evaluation is based on the difference in mortality of the OTI and the unknown as determined by a minimum of 4 tests. The order of testing shall be random and replicated OTI tests on any culture shall agree within 10 points. Table II illustrates one arrangement of testing, the computation of the test results, and the grading of the sprays.

TABLE I. Small Group Method

Pair	Culture	Date	% Dead		Difference <sup>1</sup>	Deviation	
			Sample 1	OTI		Deviation <sup>2</sup>	Squared
1	C	3-8	58	50	+8	+4	16
2	C	8	62	55	+7	+3	9
3	C	8	60	54	+6	+2	4
4	C	8	52	52	+0	-4	16
5	C	8	49	46	+3	-1	1
6	E	9	61	54	+7	+3	9
7	E	9	46	49	-3	-7	49
8	E	9	53	51	+2	-2	4
9	E	9	57	54	+3	-1	1
10	E	9	53	46	+7	+3	9
			55.1M	51.1M	+4 MD	0	118 Sum d <sup>2</sup>

<sup>1</sup>Sample 1 kill minus OTI kill.

<sup>2</sup>Deviation from the mean difference (MD).

The mean difference (MD) between Sample 1 kill and the OTI kill is 4.0.

$$\text{The standard error MD} = \frac{\sqrt{\frac{\text{Sum } d^2}{n-1}}}{\sqrt{n}} = \frac{\sqrt{\frac{118}{9}}}{\sqrt{10}} = 1.14$$

TABLE II. Large Group Method

CULTURE E Nov. 21			CULTURE F Nov. 23	
Cage No.	Sample	% Dead	Sample	% Dead
1	OTI	43	2	69
2	1	44	3	65
3	3	57	OTI	54
4	2	63	3	58
5	3	52	1	45
6	OTI	47	2	77
7	1	39	1	54
8	2	71	OTI	46
Sample	Mortalities	Average	Rating	Grade
OTI	43, 47, 54, 46	47.5		
1	44, 39, 45, 54	45.5	- 2.0	B
2	63, 71, 69, 77	70.0	+22.5	AA
3	57, 52, 65, 58	58.0	+10.5	A



# INDEX TO ADVERTISERS

Ace Dispenser Co. ....	186	National Aniline Div., Allied Chem. & Dye Corp. ....4th Cover	
Alpha Engineering & Machine Works, Inc. ....	18	National Milling & Chemical Co. ....	65
American Alcolac Corp. ....	226	National Southern Products Co. ....	204
American Colloid Co. ....	34	Newman Tallow & Soap Machinery Co. ....	188
American Cyanamid Co. ....	9	Niagara Alkali Div., Hooker Electrochemical Co. ....	168
Anchor Plastics Co. ....	17	Ninol Laboratories, Inc. ....	89
Antara Chemicals Div., General Aniline & Film Corp. ....	72	Nitrogen Division, Allied Chemical & Dye Corp. ....	96
Archer-Daniels-Midland Co. ....	3	Norda Essential Oil & Chemical Co. ....	126
Argueso & Co., M. ....	218	Oil Equipment Laboratories, Inc. ....	19
Aromatic Products, Inc. ....	137	Orbis Products Corp. ....	92
Baird & McGuire, Inc. ....	82	Oronite Chemical Co. ....	70
Bareco Wax Co. ....	140	Pacific Coast Borax Co. ....	36
Bennett Industries, Inc. ....	155	Packer Machinery Corp. ....	105
Bobrick Dispenser, Inc. ....	183	Packwood Mfg. Co., G. H. ....	184
Bowen Engineering, Inc. ....	201	Pennotex Oil Corp. ....	227
Bradshaw-Praeger & Co. ....	179	Pennsylvania Industrial Chemical Corp. ....	172
California Spray-Chemical Corp. ....	132	Pennsylvania Refining Co. ....	162
Camilli, Albert & Laloue, Inc. ....	91	Philadelphia Quartz Co. ....	196
Candy & Co. ....	111	Polak's Frutal Works, Inc. ....	163
Chemical Service of Baltimore, Inc. ....	49	Powell & Co., John ....	124
Chicago Sanitary Products Co. ....	47	Prentiss Drug & Chemical Corp. ....	127
Columbia-Southern Chemical Corp. ....	156	Private Brands, Inc. ....	25
Commercial Solvents Corp. ....	146	Products Packaging, Inc. ....	152
Concord Chemical Co. ....	61, 224	Rapids Machinery Co. ....	143
Continental Can Co. ....	14	Reily Chemical Co. ....	114
Continental Oil Co. ....	67, 67	Rhodia, Inc. ....	90
Cowles Chemical Co. ....	194	River Plate Corp., The ....	219
Crown Cork & Seal Co., Can Div. ....	10	Robeco Chemicals, Inc. ....	35
Davies-Young Soap Co. ....	109	Robertet, Inc., P. ....	94
Dodge & Olcott, Inc. ....	20	Rohm & Haas Co. ....	6
Dow Chemical Co. ....	176	Ross Co., Frank B. ....	225
Dreyer, Inc., P. R. ....	128	Roubechez, Inc. ....	159
du Pont de Nemours & Co., E. I. (dyes & Chem. Div.) ....	78	Schimmel & Co. ....	160
du Pont de Nemours & Co., E. I. (Kinetic Chem. Div.) ....	24	Semet-Solvay Petrochemical Div., Allied Chem. & Dye Corp. ....	167
Duveen Soap Corp. ....	213	Shanco Plastics & Chemicals Co. ....	173
Eagle Soap Co. ....	53	Shea Chemical Corp. ....	199, 209
Eastern Industries Div., Joseph Turner & Co. ....	45	Sindar Corp. ....	122
Eastman Chemical Products, Inc. ....	166	Foster D. Snell, Inc. ....	57
Emery Industries, Inc. ....	98	Solvay Process Div., Allied Chemical & Dye Corp. ....	42
Emulsol Chemical Corp. ....	71	Spraying Systems Co. ....	147
Enjay Co. ....	26	S & S Soap Co. ....	52
Ertel Engineering Corp. ....	104	Stanalchem, Inc. ....	81
Fairfield Chemical Division ....	164	Standard Soap Co., Div. Concord Chem. Co. ....	131
Federal Varnish Division ....	106	Stanley Co., John T. ....	210
Felton Chemical Co. ....	4	Star Porcelain Co. ....	62
Fine Organics, Inc. ....	84	Steccone Products Co. ....	203
Finetex, Inc. ....	69	Stepan Chemical Co., The ....	74
Firmenich Inc. ....	95	Sterwin Chemicals Inc. ....	170
Florasynth Laboratories, Inc. ....	138	Stokes & Smith Co. ....	103
Fluid Chemical Co. ....	148	Swift & Co. ....	120
Fries & Fries, Inc. ....	158	Synfleur Scientific Laboratories, Inc. ....	93
Fuld Brothers, Inc. ....	144	Syntomatic Corp. ....	136
Geigy Agricultural Chemicals ....	171	Tennessee Corp. ....	64
Geigy Industrial Chemicals ....	3rd Cover	Thompson-Hayward Chemical Co. ....	51
General Chemical Div., Allied Chemical & Dye Corp. ....	22, 23	Thomssen, Dr. E. G. ....	230
Gesell, Inc., R. ....	150	Tombarel Products Corp. ....	21
Gillespie-Rogers-Pyatt Co. ....	180	Trio Chemical Works, Inc. ....	110
Givaudan-Delawanna, Inc. ....	161, 191	Turner & Co., Joseph, Eastern Industries Div. ....	45
Haag Laboratories, Inc. ....	108	Ultra Chemical Works, Inc. ....	76
Harchem Div., Wallace & Tiernan, Inc. ....	99	Uncle Sam Chemical Co. ....	50
Hercules Powder Co. ....	142	Ungerer & Co. ....	2nd Cover
Hewitt Soap Co., Inc., The ....	212	Union Bag & Paper Corp. ....	206
Heyden Chemical Corp. ....	8	Union Bay State Chemical Co. ....	113
Hilton-Davis Chemical Co. ....	149	van Ameringen-Haebler, Inc. ....	Between 228 and 229
Hooker Electrochemical Co. ....	44, 154	Vanderbilt Co., R. T. ....	116
Imperial Brass Mfg. Co. ....	187	V C A, Inc. ....	215
Innes Corp., O. G. ....	119	Velsicol Chemical Corp. ....	46
International Wax Refining Co. ....	220	Verley & Co., Albert ....	32
Klix Chemical Co. ....	151	Verona Chemical Co. ....	30
Lancaster, Allwine & Rommel ....	230	Vulcan Containers Inc. ....	153
Lautier Fils, Inc. ....	31	Warwick Wax Co. ....	223
Leeben Chemical Co., Inc., Interstate Color Co., A Div. ....	55	Washburn Co., T. F. ....	112
Lehmann Co., J. M. ....	189	Wax & Rosin Products ....	221
Loeb Equipment Supply Co. ....	15	Wax Corporation of America ....	222
Mantrose Corp., The ....	181	Welch, Holme & Clark Co. ....	100
McCutcheon, Inc., J. W. ....	230	Westvaco Chlor-Alkali Div., Food Mach'y & Chem. Corp. ....	7
McLaughlin Gormley King Co. ....	28	Westvaco Mineral Prods. Div., Food Mach'y & Chem. Corp. ....	208
Meccaniche Moderne ....	58	Woburn Chemical Corp. ....	101
Michel & Co. M. ....	102	Wurster & Sanger, Inc. ....	117
Mione Mfg. Co. ....	121	Wyandotte Chemicals Corp. ....	11, 12
Miranol Chemical Co., The ....	68	Z & W Machine Products, Inc. ....	202
Mojonier Associates, Inc. ....	16	Zinsser & Co., William ....	182
Monsanto Chemical Co. ....	198		
Moore Brothers Co. ....	185		
M. R. M. Co., Inc. ....	129		



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